



December 27, 2016

Mr. Todd Davis
Site Assessment Manager
U.S. Environmental Protection Agency, Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

**Subject: Phase I Targeted Brownfields Assessment
East Pen Property
Niobrara, Knox County, Nebraska
EPA Region 7, START 4, Contract No. EP-S7-13-06, Task Order No. 0002.019.024
Task Monitor: Todd Davis, Site Assessment Manager**

Dear Mr. Davis:

Tetra Tech, Inc. is submitting the enclosed Phase I Targeted Brownfields Assessment (TBA) report regarding the East Pen property in Niobrara, Nebraska. The goal of the TBA is to identify recognized environmental conditions (REC), historical RECs, and controlled RECs associated with the subject property. This TBA was completed in accordance with industry standard practice for Phase I Environmental Site Assessments.

If you have any questions or comments regarding this submittal, please call the Project Manager at (816) 412-1768.

Sincerely,

A handwritten signature in blue ink that reads 'Kaitlyn Bahr'.

Kaitlyn Bahr
START Project Manager

A handwritten signature in blue ink that reads 'Ted Faile'.

Ted Faile, PG, CHMM
START Program Manager

Enclosures

cc: Debra Dorsey, START Project Officer (cover letter only)

PHASE I TARGETED BROWNFIELDS ASSESSMENT

**EAST PEN PROPERTY
NIOBRARA, NEBRASKA**

Superfund Technical Assessment and Response Team (START) 4

Contract No. EP-S7-13-06, Task Order No. 0002.019.024

Prepared For:

U.S. Environmental Protection Agency
Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

December 27, 2016

Prepared By:

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EXECUTIVE SUMMARY

The Tetra Tech, Inc. (Tetra Tech) Region 7 Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase I Targeted Brownfields Assessment (TBA) of an approximately 465-acre property identified as Lots 6 and 7, E ½ SW ¼ in Section 6, Lots 1 and 2, E ½ NW ¼ in Section 7, Township 31 North, Range 5 West in Knox County, Nebraska (subject property). The subject property is owned by the Ponca Tribe of Nebraska. The subject property has historically been used for agriculture and is currently used for buffalo grazing. The property currently has one metal machine shop.

The Ponca Tribe of Nebraska requested assistance under the TBA program from EPA Region 7 to assess current environmental conditions at the subject property. START generally conducted this TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM International (ASTM) International designation E 1527-13 (ASTM 2013), and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312).

Purposes of the TBA were to identify recognized environmental conditions (REC), historical RECs (HREC), and controlled RECs (CREC) associated with the subject property, and to identify the nature of contamination and risks posed by the contamination, if present.

Findings and Opinions

The following findings and opinions resulted from the TBA, primarily based on interviews and examination of historical documentation:

According to the key site manager, the former occupants of the subject property buried household hazardous waste. Various glass, bricks, metal shards, tin, and water troughs were observed throughout the subject property. Additionally, areas where structures were demolished and potentially buried have begun to sink. While the items found during the site reconnaissance do not pose a REC to the subject property, possible presence of buried hazardous waste, asbestos-containing building materials (ACBM), and lead-based paint (LBP) poses a REC to the subject property.

Recommendations

Because conclusions of this Phase I TBA are based primarily on a review of available public records, and according to accepted practices, no official judgment about levels or extent of contamination associated with any site can occur without conducting an environmental investigation that includes sampling and

chemical analysis, START recommends excavation of areas where solid waste has begun to surface and/or areas where former structures were located. If staining or other signs of contamination are noted during excavation, soil and groundwater sampling should occur to determine if contamination is present. Also, any suspect ACM, LBP, or soils around building materials that could contain asbestos fibers or LBP should be sampled and properly disposed of.

1.0 INTRODUCTION

The Tetra Tech, Inc. (Tetra Tech) Region 7 Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase I Targeted Brownfields Assessment (TBA) of an approximately 465-acre property identified as Lots 6 and 7, E ½ SW ¼ in Section 6, Lots 1 and 2, E ½ NW ¼ in Section 7, Township 31 North, Range 5 West in Knox County, Nebraska (subject property). The subject property is owned by the Ponca Tribe of Nebraska. The subject property has historically been used for agriculture and is currently used for buffalo grazing. The property currently has one metal machine shop.

START conducted this TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM International (ASTM) designation E1527-13 (ASTM 2013), and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (Title 40 *Code of Federal Regulations* [CFR] Part 312). For the purpose of this TBA, the *users* are defined as EPA and the Ponca Tribe of Nebraska (Ponca Tribe) (ASTM 2013 [Section 3.2.98]). EPA tasked START to conduct a TBA of the subject property to identify (1) recognized environmental conditions (REC), historical RECs (HREC), and controlled RECs (CREC) associated with the property; and (2) the nature of contamination and risks posed by the contamination, if present (see Appendix A).

1.1 PURPOSE

The primary goal of this TBA is to identify RECs, HRECs, and CRECs to the subject property. A REC is presence or likely presence of any hazardous substance or petroleum product in, on, or at a subject property: (1) due to any release to the environment, (2) under conditions indicative of a release to the environment, or (3) under conditions that pose a material threat of a future release to the environment. The term includes hazardous substances or petroleum products, even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies (ASTM 2013 [Section 1.1.1]). An HREC is a past release of any hazardous substance or petroleum product that has occurred in connection with the subject property, and has been addressed to the satisfaction of the applicable regulatory authority, or has met unrestricted use criteria established by a regulatory authority without subjecting the subject property to any required controls (ASTM 2013 [Section 3.2.42]). A CREC is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or

petroleum products allowed to remain in place subject to implementation of required controls (ASTM 2013 [Section 3.2.18]).

This TBA is intended to satisfy one of the requirements for the innocent landowner defense, the contiguous property exemption, and the bona fide prospective purchaser exemption to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability: that is, the practices that constitute “all appropriate inquiry into the previous ownership and uses of the subject property consistent with good customary practice,” as defined in 42 *U.S. Code* Section 9601 (35)(B).

1.2 SCOPE OF WORK

EPA developed a scope of work (SOW) for TBA activities at the subject property. The SOW, based on ASTM designation E1527-13, was to identify RECs, HRECs, and CRECs to the subject property. Phase I TBAs typically are conducted in a four-phase process, including: (1) records review, (2) site reconnaissance; (3) interviews with current and previous owners and occupants of the subject property, adjacent property owners and occupants, and local government agencies; and (4) preparation of a report. The EPA SOW is in Appendix A.

Any items listed in the ASTM standard that the report does not specifically identify as present can be assumed not present within the subject property or within such distance to the subject property as to be of potential concern to the subject property. Any item mentioned but not specifically identified as a REC, HREC, or CREC can be assumed not a REC, HREC, or CREC.

1.3 SIGNIFICANT ASSUMPTIONS

The following are beyond the scope of this evaluation: sampling and analysis for radon in indoor air, and for lead in drinking water; evaluations of indoor and/or outdoor air quality, regulatory compliance, industrial hygiene, and noise impacts; and identification of geological or geotechnical hazards.

1.4 DEVIATIONS

Deletions or deviations from ASTM E 1527-13 or the SOW are as follows. For each deviation noted, the Tetra Tech Environmental Professional (EP) has conducted an analysis of the data gaps or failures, and impacts of these on Tetra Tech’s ability to render an opinion regarding conditions indicative of releases or threatened releases of petroleum products or hazardous substances.

- No interviews with adjacent property owners or occupants other than the Ponca Tribe of Nebraska personnel were conducted. ASTM Practice E 1527-13 does not require interviews with

adjacent property owners unless a property has been abandoned and potential unauthorized uses or evidence of uncontrolled access to the abandoned property is evident. Documentation and observations indicate that the subject property is currently used by the Ponca Tribe of Nebraska for pasture land and buffalo grazing. The EP believes that information obtained from other adjacent property owners or occupants likely would not be additional to that obtained from other resources.

- Tetra Tech did not perform an environmental lien search for completion of this report, but no environmental liens were noted in the documentation provided by the users.

1.5 LIMITATIONS AND EXCEPTIONS

This report was based partially on information supplied to START from outside sources and on other information available in the public domain. The conclusions and opinions reported herein are based on the information START obtained in compiling the report. This information is on file at START's office in Kansas City, Missouri. START makes no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Because the facts forming the basis for the report are subject to professional interpretation, differing conclusions could be reached. START does not assume responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage. Compliance with submitted recommendations or suggestions does not assure elimination of hazards or the fulfillment of the client's obligations under local, state, or federal laws or any modifications or changes to such laws. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

1.6 SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions for the TBA.

1.7 STATEMENT OF USER RELIANCE

START is not required to verify independently the information provided to it by the user or gathered throughout the course of this TBA. For this TBA, EPA Region 7 and the Ponca Tribe may rely on information provided unless knowledge is possessed that certain information is incorrect based on additional information obtained during the TBA or otherwise known by the person preparing this report.

2.0 SITE LOCATION AND LEGAL DESCRIPTION

This section briefly describes the subject property and the physical setting based on information obtained from EPA Region 7, the Ponca Tribe, and a records review prior to the site reconnaissance. Observations during the site reconnaissance regarding current land uses at the subject property and adjoining properties are described in Section 4.0.

2.1 SITE LOCATION AND LEGAL DESCRIPTION

For the purposes of this TBA, the subject project is an approximately 465-acre area (see Appendix B, Figure 2). The property is owned by the Ponca Tribe. The subject property is identified as Lots 6 and 7, E ½ SW ¼ in Section 6, Lots 1 and 2, E ½ NW ¼ in Section 7, Township 31 North, Range 5 West in Knox County, Nebraska (see Appendix B, Figure 2).

The subject property is depicted on the U.S. Geological Survey (USGS) 7.5-minute series Sparta, Nebraska topographic quadrangle map (USGS 1979) in the south half of Section 6 and the northwest quarter of Section 7, Township 31 North, Range 5 West (see Figure 1, Appendix B). Coordinates at the approximate center of the subject property are 42° 41' 13.72" north latitude and 97° 56' 43.32" west longitude.

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The subject property is in an agricultural area approximately 5.5 miles southeast of Niobrara, Nebraska. Figure 2 in Appendix B illustrates the subject property location and boundaries. The subject property is an approximately 465-acre area. The subject property is bounded by agricultural and wooded land in all directions. The subject property is bounded by 887 Road to the south and by 528 Avenue to the west.

2.3 CURRENT AND PAST USES OF THE SITE

The subject property is currently used as pasture land and for buffalo grazing. Historically, the subject property was used as agricultural land.

2.4 DESCRIPTIONS OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS ON THE SITE

A metal machine shop is on the northwest portion of the subject property. A dirt road is present on the northern half of the subject property. No other structures, roads, or other improvements are on the subject property.

2.5 CURRENT AND PAST USES OF ADJOINING/SURROUNDING PROPERTIES

Areas surrounding the subject property were primarily used for agricultural purposes in all historical documentation reviewed (based on historical aerial photographs and topographic maps). Current uses of the surrounding area are agricultural.

2.6 GEOLOGIC, HYDROGEOLOGIC, HYDROLOGIC, AND TOPOGRAPHIC CONDITIONS

The following sections describe the environmental setting of the subject property and surrounding area.

2.6.1 Topography

The subject property is depicted on the USGS 7.5-minute series Sparta, Nebraska, topographic quadrangle map (USGS 1979); the subject property is approximately 1,553 feet above mean sea level (amsl). The topographic gradient of the area is generally flat, with a very gradual slope to the east-northeast toward the Missouri River (Environmental Data Resources Inc. [EDR] 2016a).

2.6.2 Geologic Setting

Bedrock in Knox County consists of layers of sandstone, chalk, and shale of Cretaceous age. Two rock units of Late Cretaceous age are exposed within the County. The Niobrara Formation is the lower of these units. It is composed of chalk, calcareous shale, and shaley limestone. It is overlain by the Pierre Shale, a formation consisting of bentonitic shale, calcareous shale, shaley chalk, and claystone (U.S. Department of Agriculture (USDA) 1997).

According to EDR, soil at the subject property is predominantly Crofton silt loam complex. Crofton silt loam complex is well drained with moderate infiltration rates. Crofton silt loam complex is not a hydric soil (EDR 2016b).

2.6.3 Hydrogeology

Regionally, the subject property is within the Great Plains aquifer system, which is exposed at the land surface in a band that extends from south-central Kansas to northeastern Nebraska. This aquifer system consists of two sandstone aquifers in Cretaceous rocks, separated by a shale confining unit. Although the Great Plains aquifer system extends in the subsurface throughout Kansas and Nebraska, it contains saline water in many places north and west of the area where it is exposed. A thick confining unit composed of

Cretaceous shale, chalk, and limestone formations overlies the Great Plains aquifer system and separates it from the High Plains aquifer in most places (USGS 1997).

A search of the USGS, Federal Reporting Data System (FRDS) Public Water Supply (PWS), and state databases did not identify any wells within a 1-mile radius of the subject property (EDR 2016b).

2.6.4 Hydrology

The subject property is in the Lewis and Clark Lake Watershed (EPA 2016a). Water on the subject property likely infiltrates the ground or flows toward a tributary of Bazile Creek, which flows through the center of the subject property (EPA 2016b).

3.0 USER-PROVIDED INFORMATION

The following summarizes information provided by EPA Region 7 and the Ponca Tribe (users) regarding the TBA.

3.1 EXISTING STRUCTURE INFORMATION AND DRAWINGS

No existing structure information or drawings were provided to START.

3.2 SUMMARY OF TITLE INFORMATION

The subject property is owned by the Ponca Tribe of Nebraska. A copy of the current deed was provided by the Ponca Tribe (see Appendix D).

3.3 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

No environmental liens or activity and use limitations (AUL) were identified by START in the information provided.

3.4 SPECIALIZED KNOWLEDGE

No previous investigations or reports are known.

3.5 OWNER, SITE MANAGER, AND OCCUPANT INFORMATION

The subject property is owned by the Ponca Tribe of Nebraska, represented by Ms. Page Hingst, Tribal Response Program Technician of the Ponca Tribe. The subject property is currently an agricultural pasture used for buffalo grazing. Ms. Hingst is considered the key site manager of the subject property.

3.6 REASON FOR PERFORMING PHASE I TBA

This TBA was requested by EPA to provide an environmental assessment of the subject property. This TBA intends to satisfy one of the requirements for the innocent landowner defense to CERCLA liability: that is, the practices that constitute “all appropriate inquiry into the previous ownership and uses of the property consistent with good customary practice,” as defined in 42 *U.S. Code* §9601(35)(B).

4.0 SITE RECONNAISSANCE

START member Ms. Kaitlyn Bahr conducted the site reconnaissance on September 29, 2016. Access to the property was provided by Ms. Hingst. Photographic documentation of the site reconnaissance is in Appendix C.

4.1 METHODOLOGY AND LIMITING CONDITIONS

The site reconnaissance consisted of a visual inspection of the subject property in accordance with requirements set forth in 40 CFR Part 312. The purpose of the reconnaissance of the subject property was to seek out “conditions indicative of releases or threatened releases” as required by ASTM 1527-13.

START conducted the reconnaissance of the subject property for evidence of the following:

- Use, storage, treatment, disposal, or generation of hazardous substances, “controlled substances,” or petroleum products
- Landfills, dumps, or evidence of burial activities or solid waste disposal
- Aboveground storage tanks (AST), underground storage tanks (UST), drums, or containers capable of storing hazardous substances or petroleum products
- Transformers or other electrical or mechanical equipment potentially containing polychlorinated biphenyls (PCB)
- Evidence of petroleum-based heating fuel sources
- Drains, pits, sumps, cisterns, cesspools, or similar receptacles where liquids drain, collect, or are stored
- Pits, ponds, lagoons, or open pools likely to contain hazardous substances or petroleum products or waste
- Staining on pavement or areas of dead, distressed, discolored, or stained vegetation that may indicate RECs
- Grading or fill material that may indicate contaminated soils or dumping
- Chemical smells, petroleum gases, foul odors, wells, and/or other site-specific environmental conditions.

START mobilized to the subject property to observe current conditions and obtain additional information relevant to the TBA. START also observed the exteriors of adjacent and select nearby properties to assess presence of environmental concerns.

Any items listed in the ASTM method not identified in this section can be assumed not present. Likewise, any item mentioned but not identified as a REC can be assumed not a REC. General recommendations regarding the subject property are offered in Section 8.0.

4.2 GENERAL SITE SETTING

The following sections describe the subject property's current and past uses and exterior and interior features.

4.2.1 Site Description

The subject property covers approximately 465 acres owned by the Ponca Tribe of Nebraska. The subject property was historically and is currently used for agriculture and buffalo grazing.

4.2.2 Exterior Observations

The subject property is currently a pasture for buffalo grazing with a metal machine shop on the northwestern portion of the subject property. A dirt road is present from 528 Avenue to the machine shop on the northeast portion of the subject property. Figure 2 in Appendix B illustrates the site location and boundaries.

4.2.3 Interior Observations

A metal machine shop is on the northwestern portion of the subject property. The machine shop is used to store farm equipment for buffalo grazing. No hazardous materials or fuel is stored in the machine shop.

4.3 SPECIFIC RECONNAISSANCE ITEMS

The following sections are related to items observed during the site reconnaissance:

4.3.1 Hazardous Substances and Petroleum Products

No hazardous substances or petroleum products were observed during the site reconnaissance.

4.3.2 Hazardous Waste

According to the key site manager, one 5-gallon bucket of tractor hydraulic and transmission oil is stored in the machine shop. The oil is used for maintenance of the tractor; no drains are in the machine shop.

The 5-gallon bucket was not observed during the site reconnaissance. Based on the small quantity of oil stored on site, the 5-gallon bucket of tractor hydraulic and transmission oil does not pose a REC to the subject property. No other hazardous waste was observed on the subject property during the site reconnaissance.

4.3.3 Landfills, Dumps, Burials, or Solid Waste Disposal

Bricks, glass bottles, tin, and metal shards were observed on the subject property near foundations of old buildings. Two partially buried pipes were observed on the subject property. Based on their size and use of the subject property, they were likely from a former well. Presence of the solid waste and pipes is considered de minimis and does not pose a REC to the subject property.

No other landfills, dumps, burials, or solid waste disposal was observed during the site reconnaissance.

4.3.4 Storage Tanks

Underground Storage Tanks

No visual evidence of past or present on-site USTs—including pipes, pumps, or stains—was apparent during the site reconnaissance.

Aboveground Storage Tanks

No ASTs were present during the site reconnaissance.

4.3.5 Polychlorinated Biphenyls (PCB)-containing Equipment

One pole-mounted transformer was observed on the subject property near the metal machine shop. A non-PCB placard was not observed; however, the transformer appeared to be in good condition with no signs of leaking. Presence of the transformer does not pose a REC to the subject property.

4.3.6 Heating, Ventilation, and Air Conditioning System and Fuel Source

No heating or ventilation systems were observed on the subject property during the site reconnaissance.

4.3.7 Drains, Sumps, Pools of Liquids, Standing Water, Cisterns, and Cesspools

One cistern was observed on the subject property. The cistern was empty and not in use. Presence of the cistern does not pose a REC to the subject property.

No other drains, sumps, pools of liquids, standing water, cisterns, or cesspools were observed on the subject property during the site reconnaissance.

4.3.8 Pits, Ponds, and Lagoons

A pond was observed on the central portion of the subject property, and one on the southeastern portion of the subject property. Presence of the ponds does not pose a REC to the subject property.

No other pits, ponds, or lagoons were observed on the subject property at the time of the site reconnaissance.

4.3.9 Stains or Corrosion and Stained Soil or Pavement

No stains or corrosion was observed on the subject property during the site reconnaissance.

4.3.10 Areas of Dead, Distressed, Discolored, or Stained Vegetation

No areas of dead, distressed, discolored, or stained vegetation were observed on the subject property during the site reconnaissance.

4.3.11 Possible Fill, Grading, or Solid Waste Disposal

Other than the minor amounts of solid waste (glass, metal, bricks) and old stone foundations, no possible fill, grading, or solid waste disposal was observed at the subject property during the site reconnaissance.

4.3.12 Smells of Chemical Gases, Petroleum Products, or Noxious Odors

No smells of chemical gases or petroleum products were detected at the time of the site reconnaissance.

4.3.13 Wastewater and Stormwater Systems and Discharges

Stormwater at the subject property either infiltrates into the ground or flows toward a tributary of Bazile Creek that flows through the center of the subject property.

4.3.14 Wells and Potable Water Supply

One uncapped well was observed on the subject property. A water well observed on the subject property provided water to a trough for buffalo. Presence of the water well on the subject property does not pose a REC to the subject property.

No dry, irrigation, injection, abandoned, or other wells were observed on the subject property.

4.3.15 Other Site-specific Environmental Conditions

No other site-specific environmental conditions were noted during the site reconnaissance.

4.4 VICINITY RECONNAISSANCE

The subject property is bounded by agricultural land in all directions. The subject property is bounded by 887 Road to the south and by 528 Avenue to the west.

5.0 INTERVIEWS

The objective of conducting interviews is to obtain information concerning RECs in connection with the subject property. This information was obtained verbally and in written form, as indicated below. Interviewees were cooperative and forthcoming with information, unless otherwise specified. Interview documentation is in Appendix D.

5.1 INTERVIEW WITH OWNER

The subject property is owned by the Ponca Tribe of Nebraska. START interviewed Ms. Hingst, Tribal Response Program Technician, and Mr. Larry Wright, Ponca Tribe buffalo herdsman, to identify past and current uses of the subject property. According to Mr. Wright, who has been associated with the subject property since 2000, the subject property has always been used as agricultural land and for buffalo grazing. Ms. Hingst completed a user questionnaire for the subject property (see Appendix D). According to Ms. Hingst, former farmers on the subject property disposed of household waste products and garbage on the subject property.

5.2 INTERVIEWS WITH KEY SITE MANAGER

Ms. Hingst is considered the key site manager of the subject property, and was interviewed as described above.

5.3 INTERVIEWS WITH CURRENT OCCUPANTS

Ms. Hingst is considered the current occupant of the subject property, and was interviewed as described above.

5.4 INTERVIEWS WITH PAST SITE OWNERS/OCCUPANTS

No interviews were conducted with past subject property owners or occupants, as they probably would not provide information to START not already provided by other sources.

5.5 INTERVIEWS WITH LOCAL/STATE GOVERNMENT OFFICIALS

Tetra Tech contacted the Nebraska Department of Environmental Quality (NDEQ) to obtain additional information regarding the subject property. According to NDEQ, there are no records for the subject property.

6.0 RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify RECs in connection with the subject property.

6.1 ENVIRONMENTAL RECORDS SOURCES

The following sources of environmental records were accessed and reviewed as part of this assessment.

6.1.1 Environmental Database Search

Federal, state, regional, and local records were reviewed to assess whether the subject property or facilities within the approximate minimum search distance have undergone significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects. EDR performed a database search of the subject property in accordance with the ASTM E 1527-13.

The databases searched have been developed and are updated by federal, state, and local agencies. While these databases are reliable and comprehensive, cases have occurred of data out of date and no longer reflective of actual facility conditions. The Government Records Searched/Data Currency Tracking section of the EDR report in Appendix E identifies when each database was updated.

A review of the facilities listed within the EDR-Radius Map with GeoCheck report revealed the following:

- The subject property was identified on the Indian Reservations database, as it is part of the Santee Sioux Indian Reservation. Location on an Indian reservation does not pose a REC to the subject property.
- The EDR did not identify any database listings for facilities within ASTM standard search distances of the subject property.
- The EDR report did not identify any “orphan” facilities which, because of poor or inadequate address information, could not be mapped by EDR.

6.1.2 Vapor Encroachment Screen

Tetra Tech completed an initial vapor encroachment screen to determine if a vapor encroachment condition (VEC) exists in the subsurface below any proposed subject property structures from hazardous substances, petroleum, and petroleum products that can include volatile organic compounds (VOC), semivolatile organic compounds (SVOC), and inorganic volatile compounds. The Tier 1 non-invasive

vapor encroachment screen assessed presence of the chemicals of concern within the following approximate recommended minimum search distances specified in ASTM E 2600-10 *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions* (ASTM 2010):

Area of Concern Approximate Minimum Search Distances Surrounding the Subject Property (miles)		
Standard Environmental Record Sources (where available)	Chemicals of Concern	Petroleum Hydrocarbon Chemicals of Concern
Federal NPL	0.33	0.10
Federal CERCLIS	0.33	0.10
Federal RCRA CORRACTS	0.33	0.10
Federal RCRA non-CORRACTS TSD	0.33	0.10
Federal RCRA Generators	Subject Property Only	Subject Property Only
Federal Institutional Control/Engineering Control	Subject Property Only	Subject Property Only
Federal ERNS	Subject Property Only	Subject Property Only
State and Tribal-equivalent NPL	0.33	0.10
State and Tribal-equivalent CERCLIS	0.33	0.10
State and Tribal Landfill or Solid Waste Disposal Sites	0.33	0.10
State and Tribal LUST	0.33	0.10
State and Tribal UST	Subject Property Only	Subject Property Only
State and Tribal Institutional Control/Engineering Control	Subject Property Only	Subject Property Only
State and Tribal Voluntary Cleanup	0.33	0.10
State and Tribal Brownfield	0.33	0.10

Notes:

CERCLIS Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS RCRA Corrective Action Activity
ERNS Emergency Response Notification System
LUST Leaking Underground Storage Tank
NPL National Priorities List
RCRA Resource Conservation and Recovery Act
TSD RCRA Treatment, Storage, and Disposal
UST Underground Storage Tank

Based on results of the initial vapor encroachment screen, no facilities with chemicals of concern identified in the EDR report were within the minimum search distances.

6.1.3 Valuation Reduction for Environmental Issues

No information on valuation reduction was provided to Tetra Tech. An environmental lien search for the subject property was not performed by EDR.

6.1.4 Engineering and Institutional Controls

As part of the environmental records search by EDR, federal and state databases for institutional and engineering controls were searched, including EPA's Engineering Controls Sites List and Sites with

Institutional Controls and the U.S. Department of the Navy's Land Use Control Information System. No information significant to this Phase I TBA was found.

6.1.5 Title Records

The subject property is currently owned by the Ponca Tribe of Nebraska. According to the warranty deed dated October 12, 1997, a portion of the subject property was transferred from Richard D. McManigal and Geneva J. McManigal, husband and wife, to the Ponca Tribe of Nebraska, a federally recognized Indian Tribe. According to the warranty deed dated August 26, 2015, a portion of the subject property was transferred from the United States of America to the Ponca Tribe of Nebraska (see Appendix F-1).

6.2 HISTORICAL USE INFORMATION REGARDING THE SITE AND ADJOINING PROPERTIES

Historical data regarding the subject property and surrounding area were gathered to determine past uses and evaluate visible environmental issues that may pose RECs. The following sections describe aerial photographs, Sanborn maps, topographic maps, city directories, and past environmental reports available regarding the subject property.

6.2.1 Historical Property Ownership

Table 6-1 presents the chain-of-title search of the subject property (Tri-County Abstract & Title Company 2016) (see Appendix F-1).

TABLE 6-1**CHAIN OF TITLE SUMMARY**

Date Executed	Transaction Description	Type	Book	Page
Southwest ¼ of Section 6, Township 31 North, Range 5 West				
8/28/1888	The United States of America, to Anna Karban	Warranty Deed	F	375
11/17/1893	Anna Karban, to Joseph Somer	Warranty Deed	Q	314
6/19/1899	Joseph Somer and Marie Somer, husband and wife, to Joseph K. Somer	Warranty Deed	W	462
Southeast ¼ of Section 6, Township 31, Range 5 West				
8/28/1890	The United States of American, to Dyer A. Couklin	Warranty Deed	L	144
12/23/1892	Dyer A. Couklin and Susan A. Couklin, husband and wife, to Louis W. Gerner	Warranty Deed	Q	50
9/21/1894	Louis W. Gerner, to G. Gerner	Warranty Deed	S	206
10/17/1901	G. Gerner, to Joseph K. Sommer	Warranty Deed	Z	225
South ½ of Section 6, Township 31 North, Range 5 West				
9/12/1953	Joseph K. Somer and Anna M. Somer, husband and wife, ,to Joseph Somer, Jr.	Warranty Deed	83	166
5/29/1967	Millie Somer, to Lawrence J. Somer	Warranty Deed	89	42
3/1/1981	Lawrence J. Somer and Naomi R. Somer, husband and wife, to Richard D. McManigal and Geneva June McManigal, husband and wife	Warranty Deed	120	319
10/12/1997	Richard D. McManigal and Geneva J. McManigal, husband and wife, to The Ponca Tribe of Nebraska	Warranty Deed	120	320
8/26/2015	United States of America, to Ponca Tribe of Nebraska	Warranty Deed	138	812

No finding from the chain-of-title search poses a REC to the subject property.

6.2.2 Sanborn Map Report

No Sanborn maps of the subject property area were available (see Appendix F-2) (EDR 2016c).

6.2.3 Aerial Photographs

START reviewed aerial photographs of the subject property and surrounding area for years 1946, 1973, 1988, 1999, 2005, 2006, 2007, 2009, 2010, and 2012 (EDR 2016d) (see Appendix F-3). Table 6-2 is a summary of information obtained from the aerial photographs.

TABLE 6-2

SUMMARY OF AERIAL PHOTOGRAPHS

Year	Comments
1946	<p>Subject Property: The subject property appears to be agricultural land. A dirt road appears to be present on the southwest and northwest portions of the subject property potentially leading to a residential structure or farmstead. Due to the scale of the photograph, details are difficult to distinguish. A creek is visible through the center portion of the subject property.</p> <p>Surrounding Properties: A road in approximate alignment with the current 887 Road is visible south of the subject property, and a road in approximate alignment with the current 528 Avenue is visible west of the subject property.</p>
1973	<p>Subject Property: The subject property appears similar to 1946.</p> <p>Surrounding Properties: The area surrounding the subject property is similar to 1946.</p>
1988	<p>Subject Property: The subject property appears similar to 1973. A pond is visible at the center of the subject property.</p> <p>Surrounding Properties: The area surrounding the subject property is similar to 1973. A large pond is visible east of the subject property, and a farmstead is visible southeast of the subject property.</p>
1999	<p>Subject Property: The subject property appears similar to 1988.</p> <p>Surrounding Properties: The area surrounding the subject property is similar to 1988.</p>
2005	<p>Subject Property: The subject property appears similar to 1999.</p> <p>Surrounding Properties: The area surrounding the subject property is similar to 1999.</p>
2006	<p>Subject Property: The subject property appears similar to 2005.</p> <p>Surrounding Properties: The area surrounding the subject property is similar to 2005.</p>
2007	<p>Subject Property: The subject property appears similar to 2006. A structure in approximate alignment with the current metal machine shop is visible on the northwestern portion of the subject property.</p> <p>Surrounding Properties: The area surrounding the subject property is similar to 2006.</p>
2009	<p>Subject Property: The subject property appears similar to 2007.</p> <p>Surrounding Properties: The area surrounding the subject property is similar to 2007.</p>
2010	<p>Subject Property: The subject property appears similar to 2009.</p> <p>Surrounding Properties: The area surrounding the subject property is similar to 2009.</p>
2012	<p>Subject Property: The subject property appears similar to 2010.</p> <p>Surrounding Properties: The area surrounding the subject property is similar to 2010.</p>

Aerial photographs can be used in conjunction with other historical records presented in this section to determine previous land use on the subject property. The subject property was historically and currently used for agriculture and buffalo grazing. No RECs were identified in the review of aerial photographs.

6.2.4 Historical Topographic Maps

Topographic maps can be used as indicators of land use and structural changes on the subject property, and thus can help determine historical land use that might pose an environmental issue to the subject property. START reviewed USGS Sparta, Nebraska quadrangle topographic maps of the subject property and surrounding area for years 1974 and 2014 (EDR 2016a, USGS 1994) (Appendices B and F-4). Table 6-3 is a summary of information obtained from the historical topographic maps of the subject property and surrounding area.

TABLE 6-3
SUMMARY OF HISTORICAL TOPOGRAPHIC MAPS

Year	Description
1974	Subject Property: No structures are on the subject property. The subject property is within the Santee Indian Reservation. A creek runs through the center of the subject property. Surrounding Properties: A residential structure or farmstead is southeast of the subject property, a road in approximate alignment with the current 887 Road is depicted south of the subject property, and a road in approximate alignment with the current 528 Avenue is depicted west of the subject property.
2014	Subject Property: The subject property appears similar to the 1974 topographic map. Surrounding Properties: The topographic map appears similar to that of 1974.

Review of topographic maps did not identify potential environmental issues; however, topographic maps can be used in conjunction with other historical records presented in this section to determine previous land use on the subject property.

6.2.5 City Directories

Tetra Tech reviewed city directory listings for the subject property at 528 Avenue and 887 Road in Center, Nebraska, and nearby property for the years 1993, 1998, 2003, 2008, and 2013 (see Appendix F-5) (EDR 2016e). No listings of the subject property or nearby properties were identified in any of the city directories searched.

6.2.6 Previous Reports

No previous investigation or reports are known.

7.0 FINDINGS AND OPINIONS

The following environmental condition in connection with the subject property was noted during this ESA:

According to the key site manager, former occupants of the subject property buried household hazardous waste. Various glass, bricks, metal shards, tin, and water troughs were observed throughout the subject property. Additionally, areas where structures were demolished and potentially buried have begun to sink. While the items found during the site reconnaissance do not pose a REC to the subject property, possible presence of buried hazardous waste, asbestos-containing building materials (ACBM), and lead-based paint (LBP) poses a REC to the subject property.

8.0 CONCLUSIONS AND RECOMMENDATIONS

START has performed a TBA, in conformance to the scope and limitations of ASTM E 1527-13, of the subject property known as Lots 6 and 7, E ½ SW ¼ in Section 6, Lots 1 and 2, E ½ NW ¼ in Section 7, Township 31 North, Range 5 West in Knox County, Nebraska. Exceptions to, or deletions from, this practice are described in Section 1.4 of this report. Based on available information, this assessment has not revealed evidence of RECs in connection with the subject property, as described in Section 7.0.

Based on the results of this Phase I ESA, START recommends excavation of areas where solid waste has begun to surface and/or areas where former structures were located. If staining or other signs of contamination are noted during excavation, soil and groundwater sampling should occur to determine if contamination is present. Also, any suspect ACBM, LBP, or soils around building materials that could contain asbestos fibers or LBP should be sampled and properly disposed of.

9.0 CERTIFICATION STATEMENT

Resumes of the Environmental Assessor who conducted the site reconnaissance and the EP who prepared the report and oversaw completion of this work are in Appendix G. We declare that, to the best of our professional knowledge and belief, we meet the definition of EP as defined in 40 CFR Part 312.10. We have the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the subject property addressed in this report. We have developed and performed all appropriate inquiries in conformance to the standards and practices set forth in 40 CFR Part 312, and attest to the completeness and accuracy of information in this report.

If you have any questions concerning the findings and conclusions of this report, please call START Program Manager Ted Faile at (816) 412-1754 or START Project Manager Kaitlyn Bahr at (816) 412-1768.

Assessor/EP



Kaitlyn Bahr
Environmental Scientist

Reviewer/EP



Dave Zimmermann
Program Manager

10.0 REFERENCES

- ASTM International (ASTM). 2010. *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*. E2600-10.
- ASTM. 2013. *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. E1527-13.
- Environmental Data Resources, Inc. (EDR). 2016a. EDR Historical Topo Map Report with QuadMatch. October 25.
- EDR. 2016b. EDR Radius Map Report with GeoCheck. October 25.
- EDR. 2016c. Certified Sanborn Map Report. October 25.
- EDR. 2016d. The EDR Aerial Photo Decade Package. October 26.
- EDR. 2016e. The EDR City Directory Image Report. October 26.
- Tri County Title & Abstract. 2016. Chain of Title Search for South ½ Section 6, Township 31 North, Range 5 West. December 9.
- U.S. Department of Agriculture (USDA). 1997. Soil Survey of Knox County, Nebraska. June.
- U.S. Environmental Protection Agency (EPA). 2016a. Surf Your Watershed: Lewis and Clark Lake Watershed – 10170101. Accessed November 8, 2016. <https://water.usgs.gov/lookup/getwatershed?10170101/www/cgi-bin/lookup/getwatershed>
- U.S. EPA. 2016b. My Waters Mapper. Accessed November 8, 2016. <https://watersgeo.epa.gov/mwm/>
- U.S. Geological Survey (USGS). 1979. Sparta, Nebraska Quadrangle. USGS 7.5 Minute Topographic Series
- USGS. 1997. Ground Water Atlas of the United States: Kansas, Missouri, and Nebraska. HA 730-D. Accessed November 8, 2016. http://pubs.usgs.gov/ha/ha730/ch_d/index.html

APPENDIX A
STATEMENT OF WORK



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**REGION 7
11201 Renner Boulevard
LENEXA, KANSAS 66219**

September 1, 2016

Tetra Tech EM, Inc.
415 Oak
Kansas City, Missouri 64106
Attn: Ted Faile

Subject: Contract #EP-S7-13-06, START 4, Subtask under Task Order #0002; Site Assessment **(Brownsfield UB)—Subtask 02.037**

Dear Mr. Faile:

Enclosed is the statement of work covering the Ponca Tribe and East Pen site.

This requirement has been issued under the Technical Support Umbrella In accordance with Contract Clause G.2 entitled "Ordering - By Designated Ordering Officers, Tetra Tech shall provide the undersigned within 10 calendar days, a proposed staffing plan for accomplishing the assigned task. You shall notify the Contracting Officer in writing within 10 calendar days, stating why you consider the price or completion date unreasonable. If the change(s) affect the price, the contractor shall provide a revised cost estimate to the contracting officer. The total amount shall not exceed **\$31,331.65**

Existing funds are available for use against the umbrella for this subtask. When you have reason to believe that the labor and support costs for this order, which will accrue in the next thirty days, will bring the total cost to over 85% of the ceiling price, you shall notify the Contracting Officer. If you have any questions, please contact me at (913) 551-7228.

Sincerely,

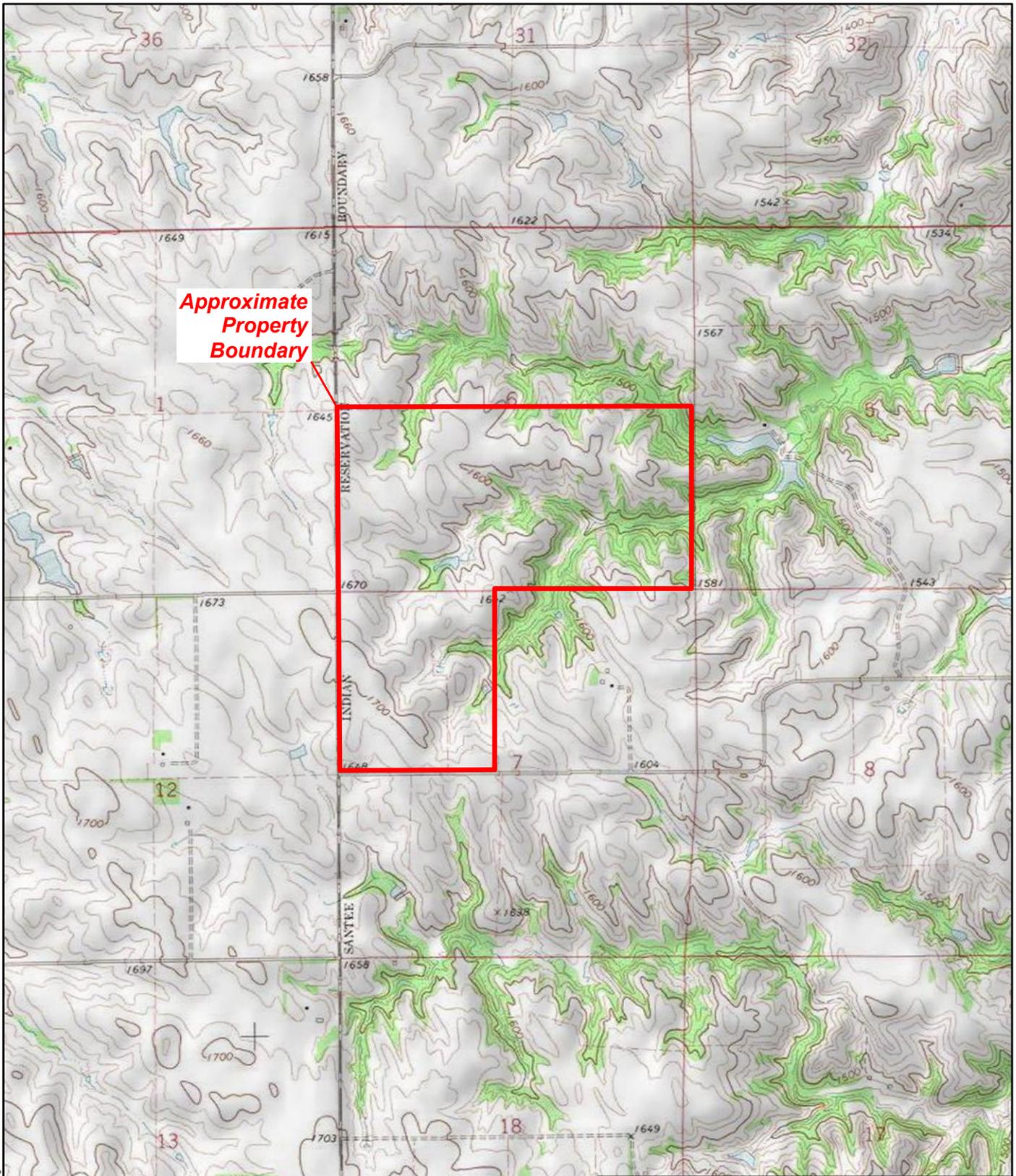
Anthony LaMaster
Contracting Officer

enclosure

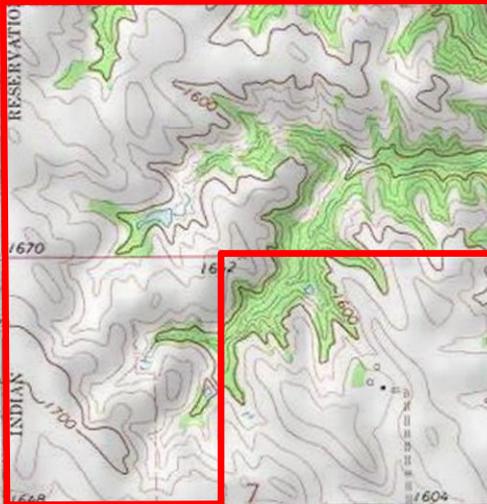
cc: Debra Dorsey—EPA COR
Todd Davis—EPA TOCOR

APPENDIX B

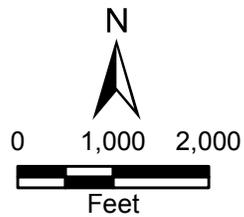
FIGURES



**Approximate
Property
Boundary**



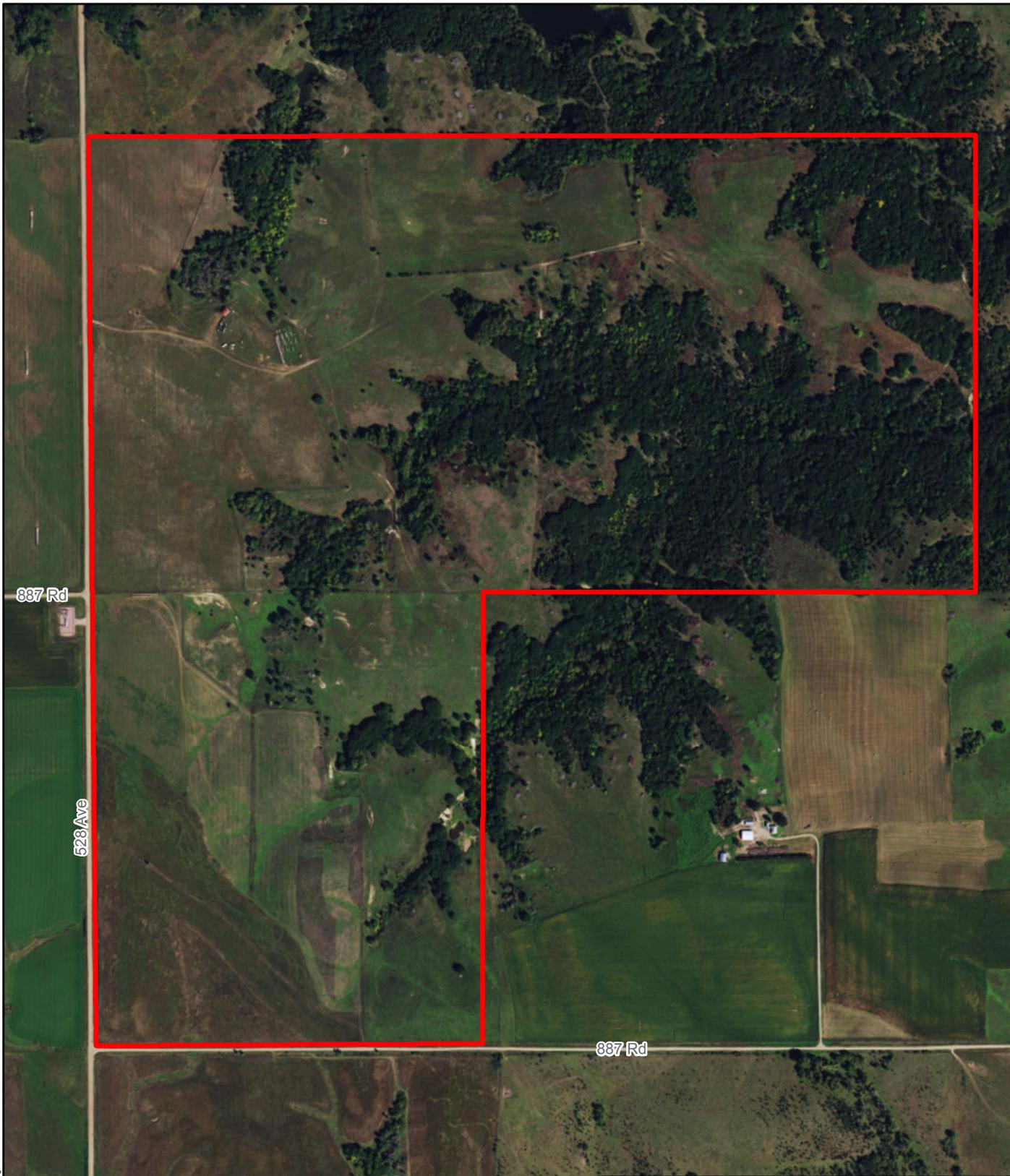
Knox County



Ponca Tribe - East Penn Property
Niobrara, Nebraska

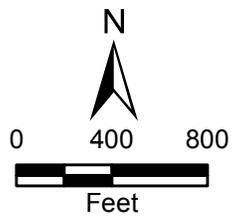
Figure 1
Site Location Map





Legend

 Approximate property boundary



Ponca Tribe - East Penn Property
Niobrara, Nebraska

Figure 2
Site Layout Map



X:\090250002\019024\East_Penn_Property\Projects\map\Figure2.mxd

Source: The source of this map image is Esri, used by EPA with Esri's permission.

Date: 10/26/2016

Drawn By: Nick Wiederholt

Project No: X9025.14.0002.019.024

APPENDIX C
SITE PHOTOGRAPHS

**East Pen Property
Knox County, Nebraska**



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: East	DESCRIPTION	This photograph shows the subject property, facing east.	1
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: Northwest	DESCRIPTION	This photograph shows a stone foundation, facing northwest.	2
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

**East Pen Property
Knox County, Nebraska**



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: West	DESCRIPTION	This photograph shows the metal barn and a pole-mounted transformer, facing west.	3
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: North	DESCRIPTION	This photograph shows bottles and broken glass on the subject property, facing north.	4
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

**East Pen Property
Knox County, Nebraska**



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: West	DESCRIPTION	This photograph shows buried metal that appears to be a metal trough, facing west.	5
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: South	DESCRIPTION	This photograph shows the subject property, facing south.	6
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

**East Pen Property
Knox County, Nebraska**



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: West	DESCRIPTION	This photograph shows the pond on the subject property, facing west.	7
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: North	DESCRIPTION	This photograph shows the cistern on the subject property, facing north.	8
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

**East Pen Property
Knox County, Nebraska**



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows the inside of the cistern on the subject property.	9
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: Southwest	DESCRIPTION	This photograph shows remnants of a stone foundation, facing southwest.	10
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

**East Pen Property
Knox County, Nebraska**



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: Northwest	DESCRIPTION	This photograph shows a stone foundation and a pile of wood on the subject property, facing northwest.	11
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: South	DESCRIPTION	This photograph shows a pipe protruding from the ground, facing south (see red arrow above).	12
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

**East Pen Property
Knox County, Nebraska**



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: South	DESCRIPTION	This photograph shows a pipe protruding from the ground, facing south.	13
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: South	DESCRIPTION	This photograph shows a pile of dirt, brush and metal on the subject property, facing south.	14
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

**East Pen Property
Knox County, Nebraska**



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: South	DESCRIPTION	This photograph shows the subject property, facing south.	15
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: East	DESCRIPTION	This photograph shows a water well near a trough used to water buffalo, facing east.	16
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

**East Pen Property
Knox County, Nebraska**



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: South	DESCRIPTION	This photograph shows a metal trough and fencing under brush, facing south.	17
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: East	DESCRIPTION	This photograph shows a metal trough in a ravine, facing east.	18
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

**East Pen Property
Knox County, Nebraska**



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: South	DESCRIPTION	This photograph shows buried metal in a ravine on the subject property, facing south.	19
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: Southeast	DESCRIPTION	This photograph shows a ravine on the subject property, facing southeast.	20
	CLIENT	Environmental Protection Agency – Region 7	Date 9/29/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

APPENDIX D

INTERVIEW DOCUMENTATION AND USER-PROVIDED INFORMATION

ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

SITE NAME: Ponca and East Penn			
SITE ADDRESS: Niobrara, NE			
DATE:			
TETRA TECH PROJECT NUMBER:			
PREPARED BY:	(Owner)	(Occupant)	(Tetra Tech)
COMPANY: Tetra Tech			

GENERAL QUESTIONS REGARDING PROPERTY CONDITION

ASTM RELATED QUESTIONS

QUESTION	Owner			Occupant			Observed			COMMENTS
	Y	N	U	Y	N	U	Y	N	U	
1a Is the property used for an industrial use?		✓								
1b Is any adjoining property used for an industrial use?		✓								
2a Did you observe evidence or do you have any prior knowledge that the property has been used for an industrial use in the past?		✓								
2b Did you observe evidence or do you have any prior knowledge that the adjoining property has been used for an industrial use in the past?		✓								
3a Is the property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility? (If applicable, identify which.)		✓								
3b Is the adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility? (If applicable, identify which.)		✓								

ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

QUESTION		Owner			Occupant			Observed			COMMENTS
		Y	N	U	Y	N	U	Y	N	U	
4a	Did you observe evidence or do you have any prior knowledge that the property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment storage, disposal, processing, or recycling facility? (If applicable, identify which.)			✓							Farmer disposed of household waste products /garbage on the property. Some was buried throughout.
4b	Did you observe evidence or do you have any prior knowledge that the adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment storage, disposal, processing, or recycling facility? (If applicable, identify which.)			✓							
5a	Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints or other chemicals in individual containers of > 5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?			✓							Unknown what is buried on the property.
5b	Did you observe evidence or do you have any prior knowledge that there have been previously any damaged or discarded automotive or industrial batteries, pesticides, paints or other chemicals in individual containers of > 5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?			✓							Currently, there are 5 gallon buckets of oil by the machine shops but are eventually taken to a recycling center.
6a	Are there currently any industrial drums (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?		✓								
6b	Did you observe evidence or do you have any prior knowledge that there have been previously any industrial drums (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?		✓								
7a	Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that originated from a contaminated site?		✓								
7b	Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that is of an unknown origin?		✓								

ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

QUESTION		Owner			Occupant			Observed			COMMENTS
		Y	N	U	Y	N	U	Y	N	U	
8a	Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?		✓								
8b	Did you observe evidence or do you have any prior knowledge that there have been previously any pits, ponds or lagoons located on the property in connection with waste treatment or waste disposal?		✓								
9a	Is there currently any stained soil on the property?		✓								
9b	Did you observe evidence or do you have any prior knowledge that there has been previously any stained soil on the property?		✓								
10a	Are there currently any registered or unregistered storage tanks (above or underground) located on the property?			✓							Pipes protruding from the ground in areas.
10b	Did you observe evidence or do you have any prior knowledge that there have been previously, any registered or unregistered storage tanks (above or underground) located on the property?			✓							
11a	Are there currently any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure on the property?	✓									
11b	Did you observe evidence or do you have any prior knowledge that there have been previously any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?	✓									
12a	Are there currently any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?										N/A

ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

16	Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?		✓										
QUESTION		Owner			Occupant			Observed			COMMENTS		
		Y	N	U	Y	N	U	Y	N	U			
17	Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?		✓										
18a	Does the property discharge waste water, on or adjacent to the property, other than storm water, into a storm water sewer system?		✓										
18b	Does the property discharge waste water, on or adjacent to the property, other than storm water, into a sanitary sewer system?		✓										
19	Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the property?	✓											Buried garbage throughout property-farm machinery.
20	Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?			✓									
21	Is there any knowledge of a valuation reduction for the property based upon environmental issues?		✓										
22a	Is there any knowledge of activity and use limitations placed on the property due to residual contamination?		✓										
22b	Is there any knowledge of activity and use limitations placed on adjacent properties due to residual contamination?		✓										

ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

NON-ASTM RELATED QUESTIONS												
QUESTION		Owner			Occupant			Observed			COMMENTS	
		Y	N	U	Y	N	U	Y	N	U		
21	Are there any wetland or floodplains? (100-year or 500-year floodplains?)	✓										Wetlands
21A	Are there any streams or ditches that run through or adjacent to the property?	✓										
21B	Are there any low areas where water ponds with snowmelt or after rainstorms?	✓										
22	Any known or suspected asbestos-containing materials? What year was the property/structure constructed?		✓									
23	Any known or suspected lead-based paint? Date constructed?			✓								Possibly lead paint on old building material
24	Radon issues? How long will the area be occupied? Is the area in a basement?											N/A

ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

FOR ACTIVE FACILITIES												
QUESTION		Owner			Occupant			Observed			COMMENTS	
		Y	N	U	Y	N	U	Y	N	U		
25	Any visual signs of indoor air quality issues? For example excessive dust, smells, or mold observed on the walls?											N/A
26	Community Right to Know posting of Materials Safety Data Sheets and/or other health related information?											N/A
27	Are employees wearing PPE for work conditions noted? For example, hard-toed shoes, hard hat, safety glasses, hearing protection, etc?											N/A
28	Does there appear to be excessive noise issues?		✓									
29	Other potential unsafe working conditions identified?		✓									
30	Health and safety gear observed, such as, first aid kits, fire extinguishers, or eye wash stations?											N/A
31	Are there any pits, tanks, or sumps that must be entered by employees that may be a confined space?		✓									
32	Are there any historical or active septic systems? unknown- possible with the vent pipes											

ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

GOVERNMENT RECORDS/HISTORICAL SOURCES INQUIRY								
33	Do any of the following Federal government record systems list the property or any property within the circumference of the area noted below:				Y	N	COMMENTS	
	National Priorities List – within 1.0 mile (1.6 Km)?					✓		
	CERCLIS List – within 0.5 mile (0.8 Km)?					✓		
	RCRA CORRACTS Facilities – within 1.0 mile (1.6 Km)?					✓		
	RCRA non-CORRACTS TSD Facilities – within 0.5 mile (0.8 Km)?					✓		
34	Do any of the following state record systems list the property or any property within the circumference of the area noted below:				Y	N	COMMENTS	
	List maintained by state environmental agency of hazardous waste sites identified for investigation or remediation that is the state equivalent to National Priorities List – within 1.0 mile (1.6 Km)?					✓		
	List maintained by state environmental agency of sites identified for investigation or remediation that is the state equivalent to CERCLIS List – within 0.5 mile (0.8 Km)?					✓		
	Leaking Underground Storage Tank (LUST) List – within 0.5 mile (0.8 Km)?					✓		
	Solid Waste/Landfill Facilities – within 0.5 mile (0.8 Km)?					✓		
35	Based upon a review of fire insurance maps or consultation with the local fire department serving the property, all as specified in the guide, are any buildings or other improvements on the property or on an adjoining property identified as having been used for an industrial use or uses likely to lead to contamination of the property?			Y	N	N/A	COMMENTS	
					✓			
KEY: Y = YES, N = NO, U = UNKNOWN, N/A = NOT APPLICABLE								
Prepared by:		(Owner),		(Occupant), and		(Tetra Tech)		
Signature:		Date:		Signature: <i>Page Hingst</i>		Date: 10/24/16		
Tetra Tech								

State of Nebraska, Knox County, ss. Filed for Record and Entered on Numerical Index this 2 (day) September A.D. 2015 at 1 o'clock and 30 minutes P. M. and recorded in Book 138 Page 812-813 Deed Record. Joann M. Fischer, County Clerk and Ex-Officio Register of Deeds, By Sue Wiebelhaus Recording Clerk. Fee \$ 16.00

NEBRASKA DOCUMENTARY
STAMP TAX
Date September 2, 2015
~~\$ 24.00~~ Exempt By Su
52-3(2)

Prepared By:
Bureau of Indian Affairs
29775 South Main, PO Box 577
Wagner, SD 57380
(605) 384-3651

WARRANTY DEED

Ponca Tribe of Nebraska, 381T381030, grantor, of Knox County, State of Nebraska; whose post office address is Post Office Box 288, Niobrara, Nebraska, 68760, for other good and valuable consideration, grants, warrants, coveys, and transfers to the United States of America in Trust for Ponca Tribe of Nebraska, 381T381030, grantee, whose address is Post Office Box 288, Niobrara, Nebraska, 68760, the following described real estate in the County of Knox, in the State of Nebraska.

S½ of Section 6; NW¼ of Section 7, all in Township 31 North, Range 5 West, Sixth Principal Meridian, Knox County, Nebraska, containing 464.97 acres, more or less.

Better described as:

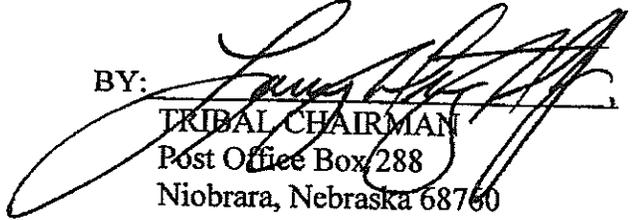
Lots 6 and 7, E½SW¼ and SE¼ in Section 6; Lots 1 & 2, E½NW¼ in Section 7; all in Township 31 North, Range 5 West, Sixth Principal Meridian, Knox County, Nebraska, containing 464.97 acres, more or less.

This conveyance is subject to all valid existing leases, rights-of-way, permits and reservations in patents or deeds through which grantor acquired title.

This conveyance is made in accordance with the provisions of the Act of June 18, 1934 (48 Stat. 984), also known as the Indian Reorganization Act.

Dated this 26th day of AUGUST, 2015.

PONCA TRIBE OF NEBRASKA

BY: 
TRIBAL CHAIRMAN
Post Office Box 288
Niobrara, Nebraska 68760

APPENDIX E

EDR RADIUS MAP WITH GEOCHECK

East Penn Property

528 Ave and 887 Road
Center, NE 68724

Inquiry Number: 4763055.2s

October 25, 2016

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

528 AVE AND 887 ROAD
CENTER, NE 68724

COORDINATES

Latitude (North): 42.6871470 - 42° 41' 13.72"
Longitude (West): 97.9453670 - 97° 56' 43.32"
Universal Transverse Mercator: Zone 14
UTM X (Meters): 586399.1
UTM Y (Meters): 4726398.5
Elevation: 1553 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6715620 SPARTA, NE
Version Date: 2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140917
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
528 AVE AND 887 ROAD
CENTER, NE 68724

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	SANTEE SIOUX INDIAN		INDIAN RESERV	Same	1 ft.

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List

EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Superfund State Program List

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Licensed Landfill List

State and tribal leaking storage tank lists

LAST..... Leaking Aboveground Storage Tank Sites

LUST..... Leaking Underground Storage Tank Sites

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

UST..... Facility and Tank Data

AST..... Hazardous Chemical AST List

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL..... Nebraska's Institutional Control Registry

State and tribal voluntary cleanup sites

VCP..... RAPMA Sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Potential Brownfields Inventory Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Resource Directory

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

EXECUTIVE SUMMARY

US CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST UST..... Underground Storage Tank Database Listing
HIST AST..... Aboveground Storage Tank Database Listing

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Surface Spill List
SPILLS 90..... SPILLS 90 data from FirstSearch
SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
FINDS..... Facility Index System/Facility Registry System
UXO..... Unexploded Ordnance Sites
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
AIRS..... Air State Program List

EXECUTIVE SUMMARY

DRYCLEANERS.....	Drycleaner Facility Listing
Financial Assurance.....	Financial Assurance Information Listing
NPDES.....	Wastewater Database Listing
TIER 2.....	Tier 2 Facility Listing
UIC.....	Underground Injection Control Database
ECHO.....	Enforcement & Compliance History Information
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
ABANDONED MINES.....	Abandoned Mines

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historic Gas Stations
EDR Hist Cleaner.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

INDIAN RESERV: This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

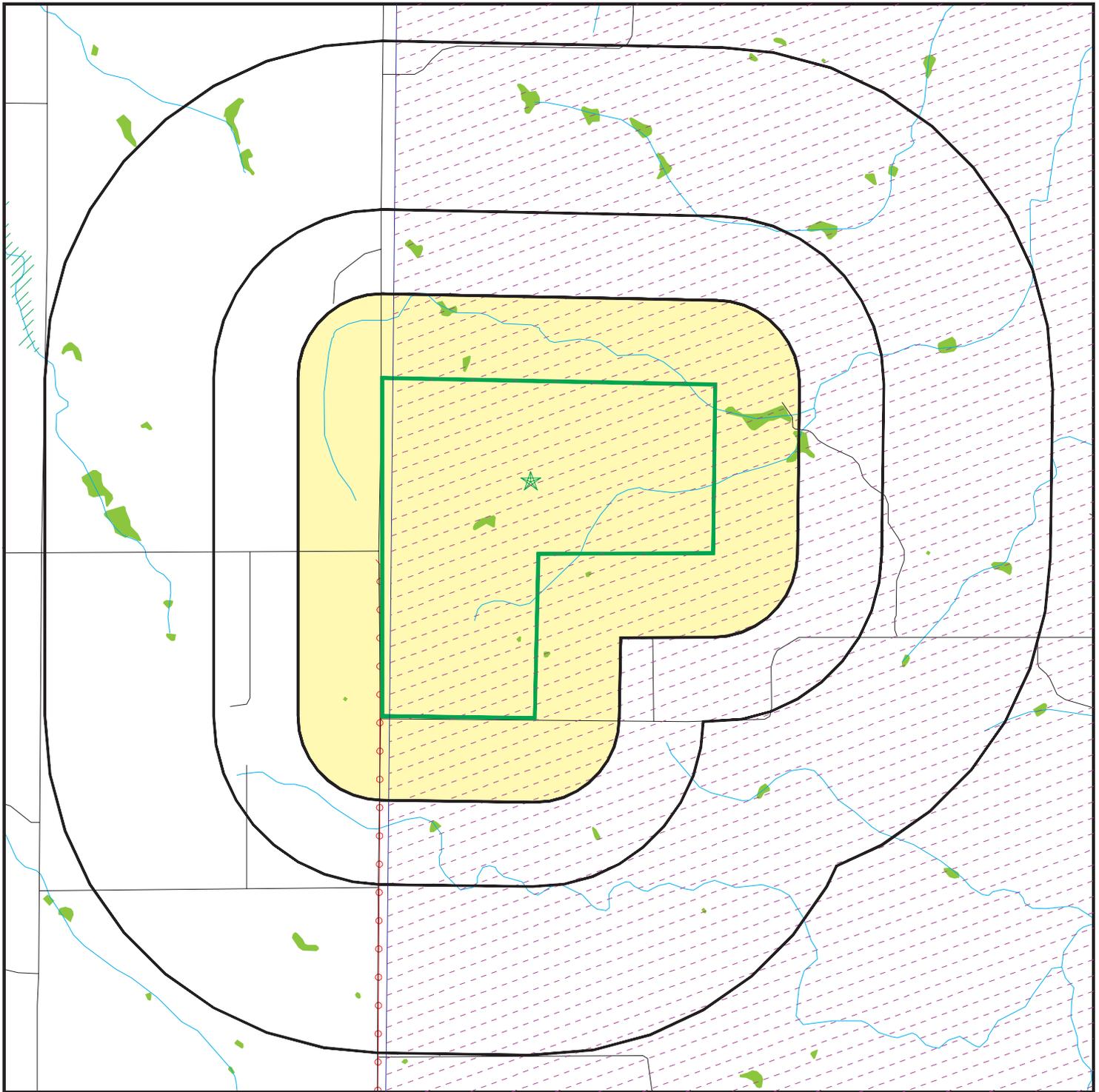
A review of the INDIAN RESERV list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 INDIAN RESERV site within approximately 0.001 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SANTEE SIOUX INDIAN		0 - 1/8 (0.000 mi.)	0	8

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 4763055.2S



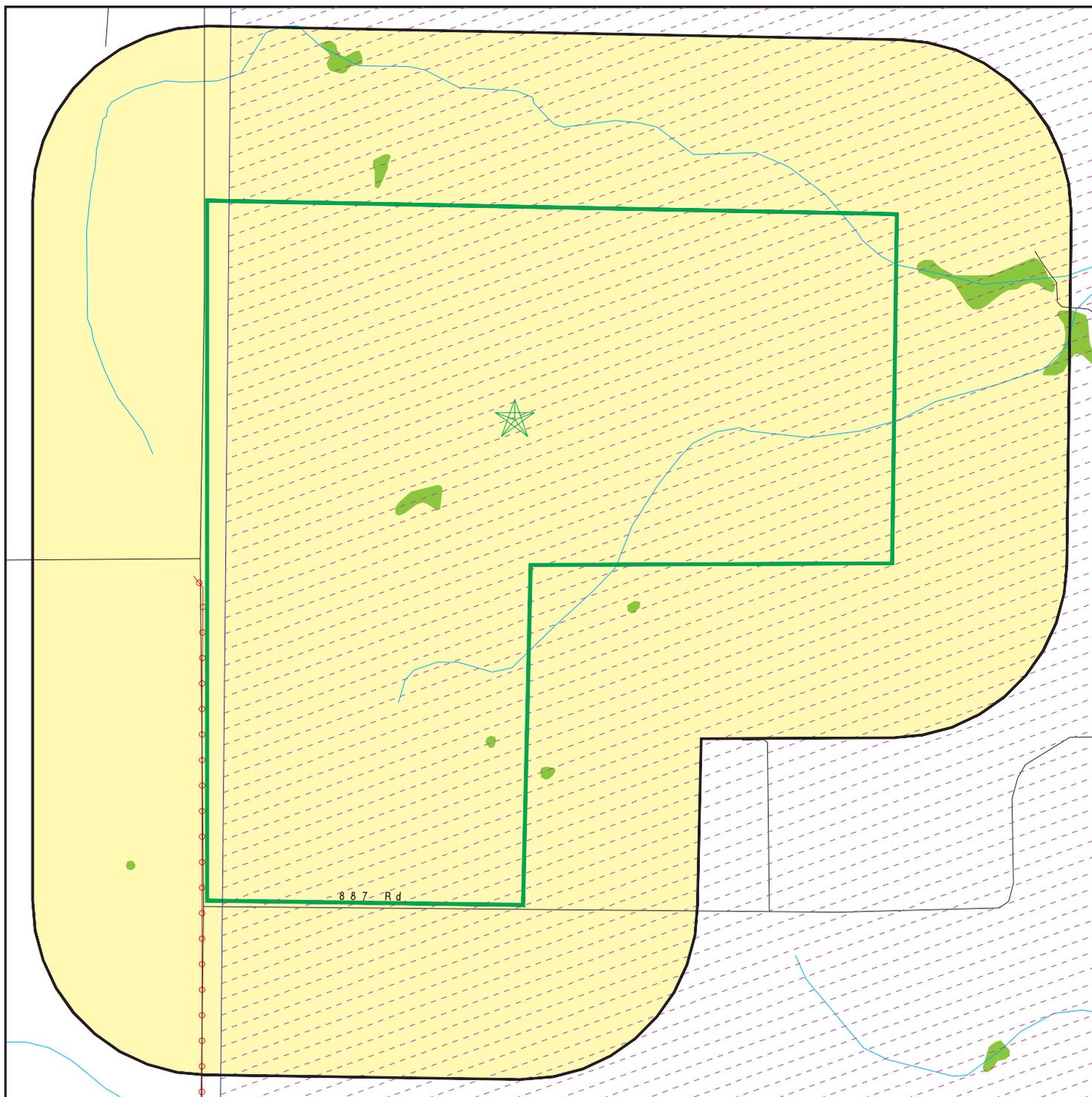
-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: East Penn Property
 ADDRESS: 528 Ave and 887 Road
 Center NE 68724
 LAT/LONG: 42.687147 / 97.945367

CLIENT: Tetra Tech EMI
 CONTACT: Kaitlyn Bahr
 INQUIRY #: 4763055.2s
 DATE: October 25, 2016 10:18 pm

DETAIL MAP - 4763055.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Power transmission lines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: East Penn Property
 ADDRESS: 528 Ave and 887 Road
 Center NE 68724
 LAT/LONG: 42.687147 / 97.945367

CLIENT: Tetra Tech EMI
 CONTACT: Kaitlyn Bahr
 INQUIRY #: 4763055.2s
 DATE: October 25, 2016 10:19 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LAST	0.500		0	0	0	NR	NR	0
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
INST CONTROL	0.500		0	0	0	NR	NR	0
<i>State and tribal voluntary cleanup sites</i>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>State and tribal Brownfields sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
<i>Local Lists of Registered Storage Tanks</i>								
HIST UST	0.250		0	0	NR	NR	NR	0
HIST AST	0.001		0	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2	0.001		0	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
SPILLS 80	0.001		0	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		1	NR	NR	NR	NR	1
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
TIER 2	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	0.001		0	NR	NR	NR	NR	0
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MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	1	0	0	0	0	1

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IND RES
Region

SANTEE SIOUX INDIAN RESERVATION

INDIAN RESERV

CIND100216
N/A

SANTEE SIOUX INDIAN RESER (County), NE

< 1/8
1 ft.

INDIAN RESERV:

Feature: Indian Reservation
Name: Santee Sioux Indian Reservation
Agency: BIA
State: NE

Count: 0 records.

ORPHAN SUMMARY

<u>City</u>	<u>EDR ID</u>	<u>Site Name</u>	<u>Site Address</u>	<u>Zip</u>	<u>Database(s)</u>
NO SITES FOUND					

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 09/14/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/04/2016	Telephone: 703-603-8704
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/04/2016
Number of Days to Update: 17	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/20/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/30/2017
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/20/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/30/2017
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016	Source: EPA
Date Data Arrived at EDR: 06/30/2016	Telephone: 800-424-9346
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 913-551-7003
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 913-551-7003
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 913-551-7003
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 913-551-7003
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 10/14/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/28/2016
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/31/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/31/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Superfund State Program List

The Nebraska Department of Environmental Quality is providing this information from its own database. The data, although not verified to be the most current or accurate for any specific site, is generally based on the contents of the physical documents in the files. You may contact the Records Management Unit at (402) 471-3557 to make arrangements to view or to get a photocopy of the physical file.

Date of Government Version: 06/20/2016
Date Data Arrived at EDR: 06/21/2016
Date Made Active in Reports: 09/14/2016
Number of Days to Update: 85

Source: Dept. of Environmental Quality
Telephone: 402-471-3557
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Licensed Landfill List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/27/2016
Date Data Arrived at EDR: 07/29/2016
Date Made Active in Reports: 09/14/2016
Number of Days to Update: 47

Source: Department of Environmental Quality
Telephone: 402-471-4210
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 07/27/2016
Date Data Arrived at EDR: 07/29/2016
Date Made Active in Reports: 09/14/2016
Number of Days to Update: 47

Source: Department of Environmental Quality
Telephone: 402-471-3557
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tank Sites

Releases from an aboveground storage tank system.

Date of Government Version: 07/27/2016
Date Data Arrived at EDR: 07/29/2016
Date Made Active in Reports: 09/14/2016
Number of Days to Update: 47

Source: Department of Environmental Quality
Telephone: 402-471-3557
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 04/27/2016	Telephone: 312-886-7439
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3372
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6271
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 118	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015	Source: EPA Region 7
Date Data Arrived at EDR: 02/12/2016	Telephone: 913-551-7003
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 112	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/19/2016	Telephone: 214-665-6597
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 105	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 10/11/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Varies

UST: Facility and Tank Data

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/17/2016	Source: Nebraska State Fire Marshal
Date Data Arrived at EDR: 08/03/2016	Telephone: 402-471-9664
Date Made Active in Reports: 09/14/2016	Last EDR Contact: 08/03/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/14/2016
	Data Release Frequency: Annually

AST: AST Data

A listing of aboveground storage tank site locations. Aboveground storage tanks dispensing hazardous substances must register such tank with this office. Storage tanks of 1000 gallons or less are exempt from this requirement.

Date of Government Version: 05/31/2016	Source: State Fire Marshal
Date Data Arrived at EDR: 06/01/2016	Telephone: 402-471-9465
Date Made Active in Reports: 07/13/2016	Last EDR Contact: 08/26/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/27/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2016	Telephone: 214-665-7591
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 120	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-9424
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016	Source: EPA Region 9
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3368
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016	Source: EPA Region 8
Date Data Arrived at EDR: 02/05/2016	Telephone: 303-312-6137
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 119	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

INST CONTROL: Nebraska's Institutional Control Registry

A list of sites within Nebraska that have institutional controls. According to the Environmental Protection Agency (EPA), institutional controls are "non-engineering measures designed to prevent or limit exposure to hazardous substances left in place at a site, or assure effectiveness of the chosen remedy. Institutional controls are usually, but not always, legal controls, such as easements, restrictive covenants, and zoning ordinances." In short, institutional controls are a type of environmental covenant typically used when property is to be cleaned up to a level determined by the potential environmental risks posed by a planned use, rather than to unrestricted use standards. This method of control has proven to be both environmentally and economically beneficial.

Date of Government Version: 03/14/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 03/24/2016	Telephone: 402-471-2214
Date Made Active in Reports: 05/12/2016	Last EDR Contact: 09/23/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 01/02/2017
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 09/26/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

VCP: RAPMA Sites

The Remedial Action Plan Monitoring Act (RAPMA), initially created in 1995, provides property owners and parties responsible for contamination with a mechanism for developing voluntary environmental cleanup plans which are reviewed and approved by the Department.

Date of Government Version: 03/14/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 03/24/2016	Telephone: 402-471-2186
Date Made Active in Reports: 05/12/2016	Last EDR Contact: 09/23/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 01/02/2017
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Potential Brownfields Inventory Listing

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

"NDEQ defines a brownfields site as subpart (A) of CERCLA ? 101(39): 'Real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.' This is a broad-based approach to capture all potential brownfields sites. In the event that CERCLA 128(a) State Response Program funds are utilized - for example, conducting a Section 128(a) Assessment - the exclusions, site-by-site determinations, and further definitions as provided by the law would need to be met. This would be done on a site-by-site basis." A preliminary Survey and Inventory of Brownfields Sites in Nebraska was constructed based on previously submitted information including sites named specifically by city representatives. The list was built on facility characteristics, which were founded on previous, broad-based contamination experience. Additions to the inventory were made by looking for other sources of potential brownfields sites using Standard Industrial Classification (SIC) codes. A general sector list was constructed to serve as an inventory guide. This list shows all of the different types of sites that are within the inventory (sorted by SIC code), and the number of sites there are of each type. Color-coated blocks, which group together similar SIC codes and the sites that they encompass also sort the sectors.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/22/2016
Date Made Active in Reports: 09/14/2016
Number of Days to Update: 84

Source: Department of Environmental Quality
Telephone: 402-471-2186
Last EDR Contact: 09/21/2016
Next Scheduled EDR Contact: 01/01/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/22/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/21/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Resource Directory A listing of recycling facilities.

Date of Government Version: 09/26/2014
Date Data Arrived at EDR: 09/26/2014
Date Made Active in Reports: 11/03/2014
Number of Days to Update: 38

Source: Department of Environmental Quality
Telephone: 402-471-6974
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/05/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Underground Storage Tank Database Listing

A listing of underground storage tank locations. This listing contains detail information that the UST listing does not. It is no longer updated by the agency. For current information see the UST listing.

Date of Government Version: 02/28/2005
Date Data Arrived at EDR: 09/01/2006
Date Made Active in Reports: 10/11/2006
Number of Days to Update: 40

Source: State Fire Marshal
Telephone: 402-471-2027
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

HIST AST: Aboveground Storage Tank Database Listing

A listing of aboveground storage tank locations. This listing contains detail information that the AST listing does not. It is no longer updated by the agency. For current information see the AST listing.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2004
Date Data Arrived at EDR: 09/01/2006
Date Made Active in Reports: 10/11/2006
Number of Days to Update: 40

Source: State Fire Marshal
Telephone: 402-471-2027
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/28/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 87

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

SPILLS: Surface Spill List

Releases of petroleum or hazardous substances to the air, land, or water.

Date of Government Version: 07/27/2016
Date Data Arrived at EDR: 07/29/2016
Date Made Active in Reports: 09/14/2016
Number of Days to Update: 47

Source: Department of Environmental Quality
Telephone: 402-471-2186
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/09/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 04/15/2003
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 913-551-7003
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 09/09/2016
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/14/2016
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/14/2016
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 10/20/2016
Number of Days to Update: 54	Next Scheduled EDR Contact: 11/28/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 07/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/17/2016	Telephone: 202-566-1917
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 08/17/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/28/2016
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/08/2016
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 09/06/2016
Number of Days to Update: 6	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012	Source: EPA
Date Data Arrived at EDR: 01/15/2015	Telephone: 202-260-5521
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 09/23/2016
Number of Days to Update: 14	Next Scheduled EDR Contact: 01/02/2017
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 11/24/2015	Telephone: 202-566-0250
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 08/26/2016
Number of Days to Update: 133	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 10/24/2016
Number of Days to Update: 77	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 09/09/2016
Number of Days to Update: 74	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/01/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/26/2016	Telephone: 202-564-8600
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 07/25/2016
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 08/12/2016
Number of Days to Update: 3	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016	Source: EPA
Date Data Arrived at EDR: 04/28/2016	Telephone: 202-566-0500
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 10/14/2016
Number of Days to Update: 127	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/27/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/05/2016	Telephone: 202-564-5088
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/11/2016
Number of Days to Update: 77	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 09/05/2016
Number of Days to Update: 43	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 09/09/2016
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/06/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/29/2016
Number of Days to Update: 83	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/03/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/05/2016	Telephone: 202-343-9775
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/07/2016	Telephone: 703-603-8787
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 10/20/2016
Number of Days to Update: 148	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 06/30/2016	Source: EPA
Date Data Arrived at EDR: 07/25/2016	Telephone: 202-564-2496
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 09/26/2016
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 06/30/2016	Source: EPA
Date Data Arrived at EDR: 07/25/2016	Telephone: 202-564-2496
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 09/26/2016
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/01/2016	Telephone: 303-231-5959
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 09/01/2016
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005	Source: USGS
Date Data Arrived at EDR: 02/29/2008	Telephone: 703-648-7709
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 09/02/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 09/02/2016
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015	Source: EPA
Date Data Arrived at EDR: 09/09/2015	Telephone: (913) 551-7003
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 09/07/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 10/17/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 01/30/2017
	Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/24/2016
Number of Days to Update: 91	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

AIRS: Air State Program List

A listing of air program facilities.

Date of Government Version: 06/20/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 06/21/2016	Telephone: 402-471-3389
Date Made Active in Reports: 09/14/2016	Last EDR Contact: 09/19/2016
Number of Days to Update: 85	Next Scheduled EDR Contact: 01/02/2017
	Data Release Frequency: Quarterly

DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaner facilities in Nebraska.

Date of Government Version: 06/20/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 06/21/2016	Telephone: 402-471-3557
Date Made Active in Reports: 09/14/2016	Last EDR Contact: 09/30/2016
Number of Days to Update: 85	Next Scheduled EDR Contact: 01/02/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Financial Assurance: Financial Assurance Information Listing

Financial assurance information for solid and hazardous waste sites.

Date of Government Version: 12/01/2015
Date Data Arrived at EDR: 12/23/2015
Date Made Active in Reports: 03/01/2016
Number of Days to Update: 69

Source: Department of Environmental Quality
Telephone: 402-471-2186
Last EDR Contact: 09/20/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

NPDES: Wastewater Database Listing

A listing of permitted wastewater facilities.

Date of Government Version: 06/06/2016
Date Data Arrived at EDR: 06/09/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 41

Source: Department of Environmental Quality
Telephone: 402-471-3557
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Quarterly

TIER 2: Tier 2 Facility Listing

A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/14/2016
Number of Days to Update: 44

Source: Department of Environmental Quality
Telephone: 402-471-3557
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

UIC: Underground Injection Control Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 05/04/2016
Date Data Arrived at EDR: 05/10/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 64

Source: Department of Environmental Quality
Telephone: 402-471-2186
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 59

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016
Date Data Arrived at EDR: 09/20/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/20/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 81

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Nebraska.

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Nebraska.

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/19/2013	Telephone: 860-424-3375
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 08/10/2016
Number of Days to Update: 45	Next Scheduled EDR Contact: 11/28/2016
	Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2016	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 08/03/2016	Telephone: 518-402-8651
Date Made Active in Reports: 09/09/2016	Last EDR Contact: 08/03/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/14/2016
	Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015	Source: Department of Natural Resources
Date Data Arrived at EDR: 04/14/2016	Telephone: N/A
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 09/12/2016
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/26/2016
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines

Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Listing

Source: Department of Health & Human Services
Telephone: 402-471-2306

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: National Wetlands Inventory

Source: Department of Natural Resources

Telephone: 402-471-2363

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

EAST PENN PROPERTY
528 AVE AND 887 ROAD
CENTER, NE 68724

TARGET PROPERTY COORDINATES

Latitude (North):	42.687147 - 42° 41' 13.73"
Longitude (West):	97.945367 - 97° 56' 43.32"
Universal Tranverse Mercator:	Zone 14
UTM X (Meters):	586399.1
UTM Y (Meters):	4726398.5
Elevation:	1553 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6715620 SPARTA, NE
Version Date:	2014

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

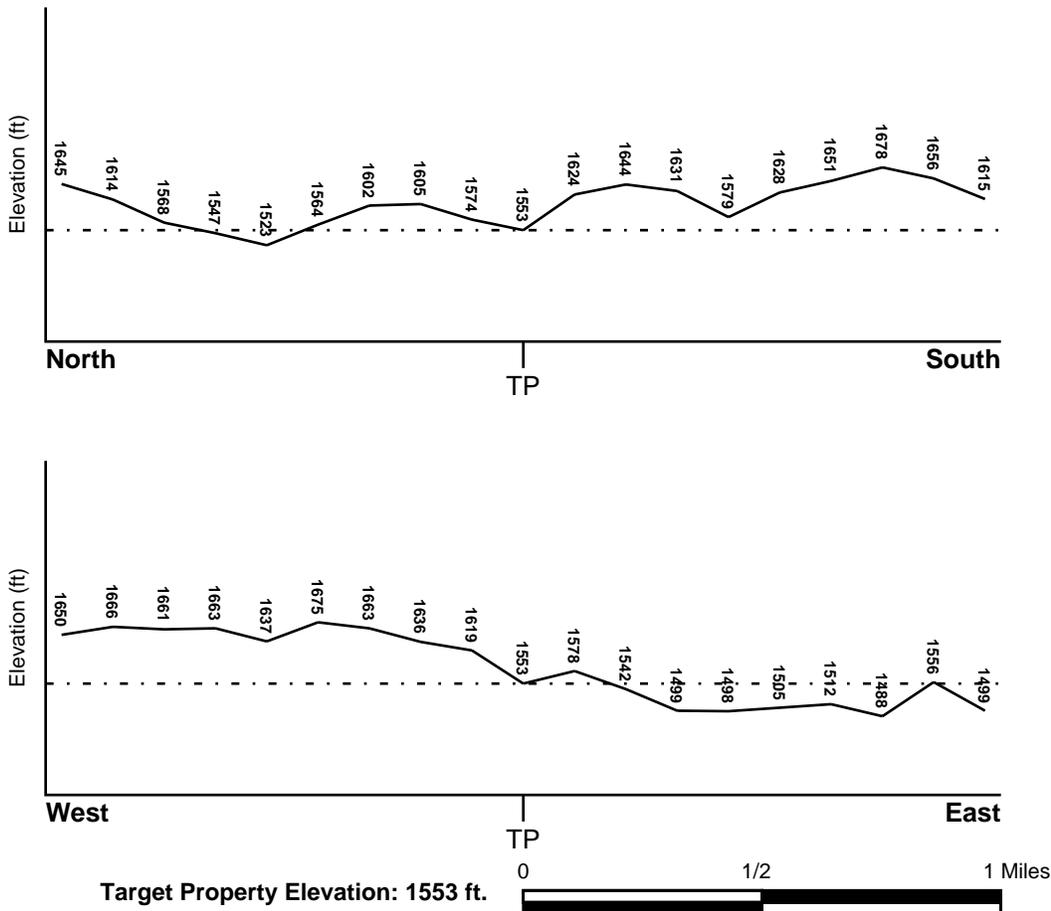
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
31107C0325C	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
Not Reported	

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
SPARTA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

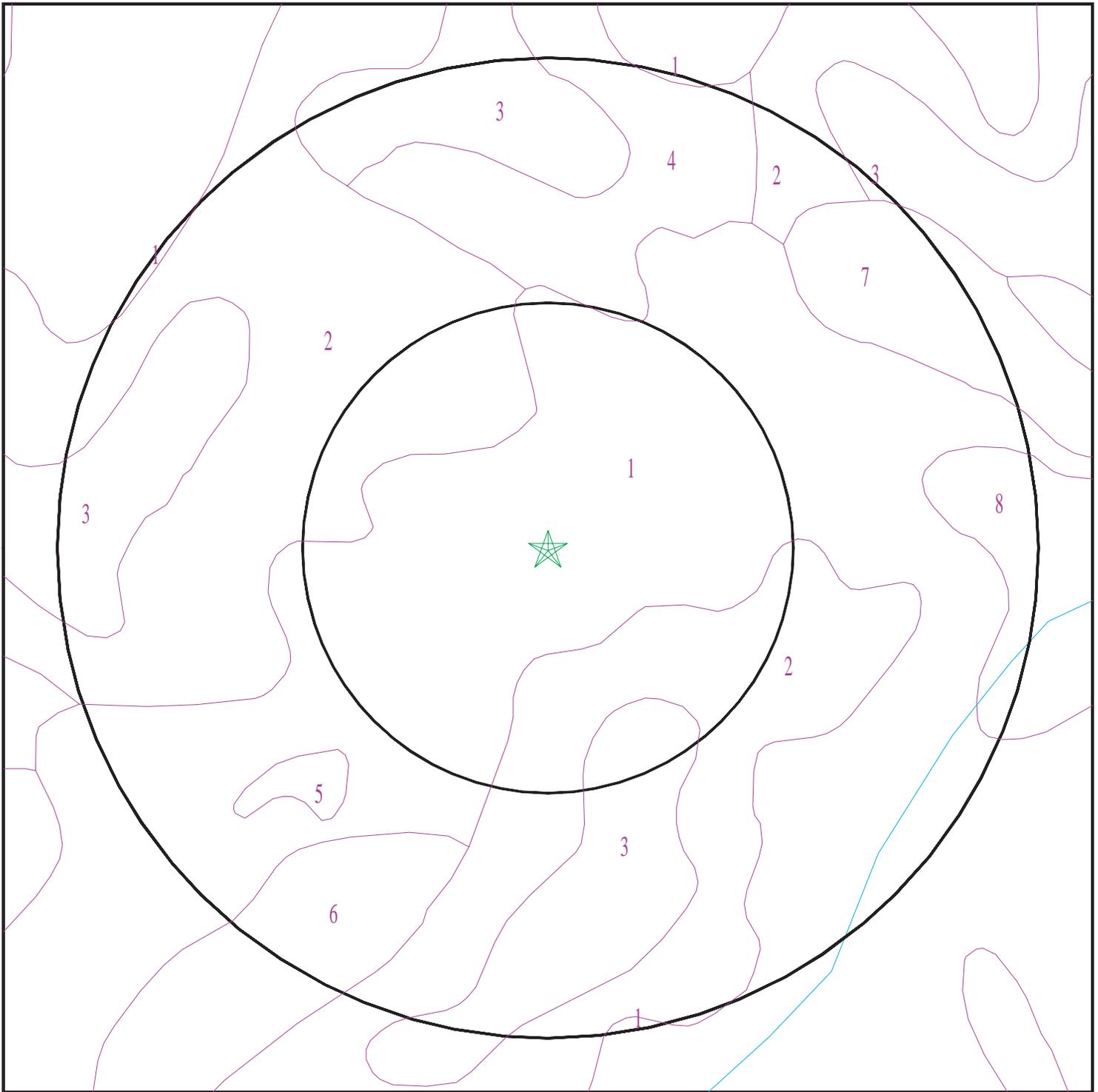
Era:	Mesozoic
System:	Cretaceous
Series:	Taylor Group
Code:	uK3 (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4763055.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: East Penn Property
ADDRESS: 528 Ave and 887 Road
Center NE 68724
LAT/LONG: 42.687147 / 97.945367

CLIENT: Tetra Tech EMI
CONTACT: Kaitlyn Bahr
INQUIRY #: 4763055.2s
DATE: October 25, 2016 10:19 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: CROFTON

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4
2	5 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

Soil Map ID: 2

Soil Component Name: CROFTON

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4
2	5 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: NORA

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silty clay loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 6.1
2	11 inches	22 inches	silty clay loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.8 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	22 inches	59 inches	silty clay loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 6.6

Soil Map ID: 4

Soil Component Name: THURMAN

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Not reported	Not reported	Max: 42.33 Min: 14.11	Max: 7.3 Min: 5.6
2	11 inches	33 inches	loamy sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.3 Min: 5.6
3	33 inches	59 inches	sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.3 Min: 5.6

Soil Map ID: 5

Soil Component Name: Water

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 6

Soil Component Name: SIMEON

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.8 Min: 6.1
2	7 inches	59 inches	sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.8 Min: 6.1

Soil Map ID: 7

Soil Component Name: MEADIN

Soil Surface Texture: sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.1
2	7 inches	11 inches	sandy loam	Not reported	Not reported	Max: 141 Min: 42	Max: 7.3 Min: 5.1
3	11 inches	59 inches	very gravelly coarse sand	Not reported	Not reported	Max: 141 Min: 141	Max: 7.3 Min: 6.1

Soil Map ID: 8

Soil Component Name: LYNCH

Soil Surface Texture: silty clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silty clay	Not reported	Not reported	Max: 0.4233 Min: 0.01	Max: 8.4 Min: 7.4
2	5 inches	35 inches	silty clay	Not reported	Not reported	Max: 1.411 Min: 0.4233	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	35 inches	59 inches	weathered bedrock	Not reported	Not reported	Max: 1 Min: 0.1	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

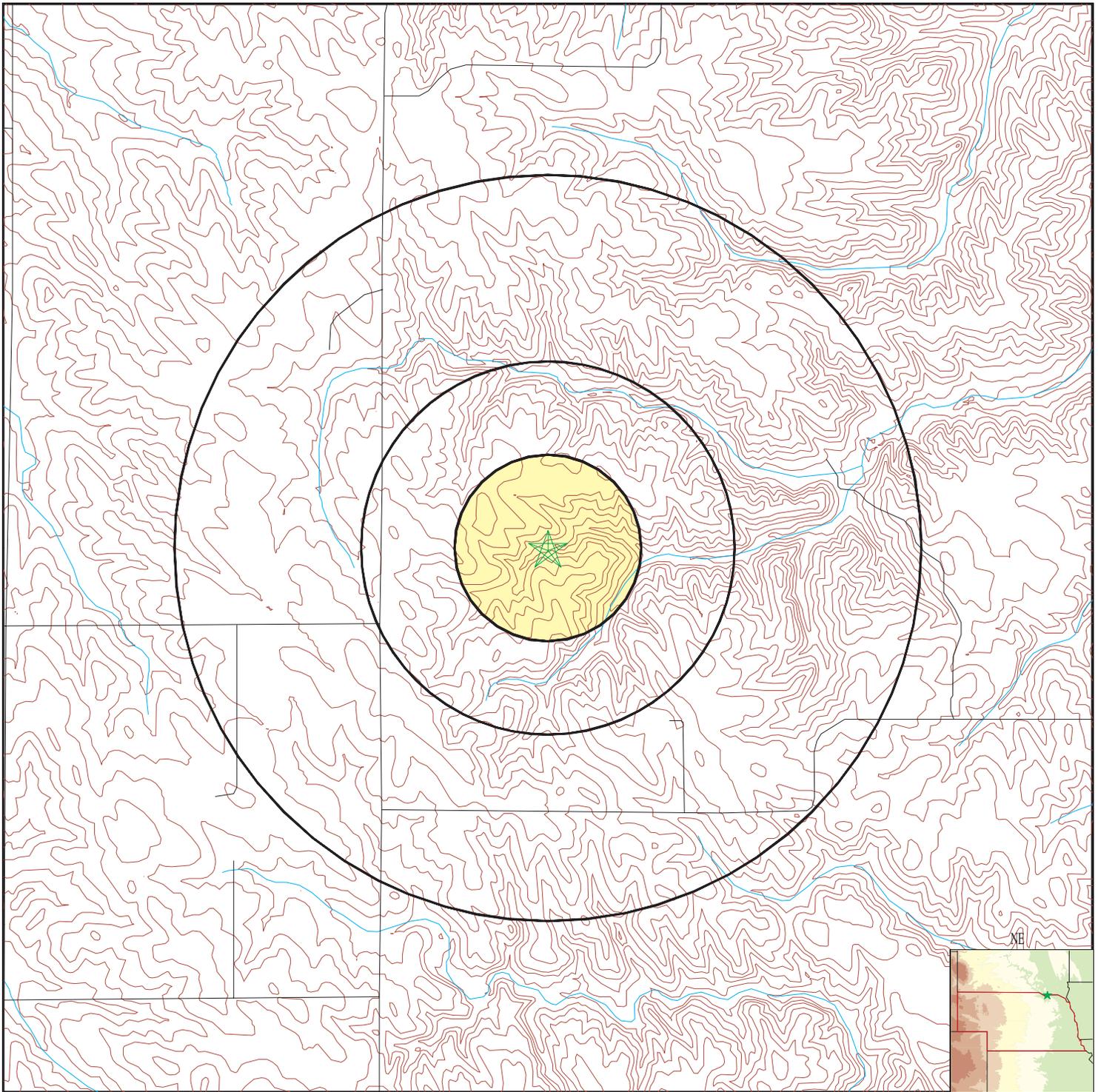
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 4763055.2s



-  County Boundary
-  Major Roads
-  Contour Lines
-  Earthquake epicenter, Richter 5 or greater
-  Water Wells
-  Public Water Supply Wells
-  Cluster of Multiple Icons

-  Groundwater Flow Direction
-  Indeterminate Groundwater Flow at Location
-  Groundwater Flow Varies at Location



SITE NAME: East Penn Property
 ADDRESS: 528 Ave and 887 Road
 Center NE 68724
 LAT/LONG: 42.687147 / 97.945367

CLIENT: Tetra Tech EMI
 CONTACT: Kaitlyn Bahr
 INQUIRY #: 4763055.2s
 DATE: October 25, 2016 10:19 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: NE Radon

Radon Test Results

Num Tests	Avg pCi/L	# > pCi/L	% > pCi/L	Max pCi/L
8	9.9	7	88%	15.4

Federal EPA Radon Zone for KNOX County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 68724

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	15.400 pCi/L	0%	100%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: National Wetlands Inventory

Source: Department of Natural Resources

Telephone: 402-471-2363

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Registered Groundwater Wells Database

Source: Department of Natural Resources

Telephone: 402-471-2363

Water use types include Aquaculture, Commercial/Industrial, Domestic, Ground Heat Exchanger, Heat Pump (Ground Water Source), Irrigation, Injection, Observation (Ground Water Levels); Other - Lake Supply, Fountain, Geothermal, Wildlife, Wetlands, Recreation, Plant and Lagoon, Sprinkler, Test, Vapor Monitoring; Public Water Supply with Spacing Protection, Monitoring (Ground Water Quality), Recovery, Livestock, Geothermal, Public Water Supply without Spacing Protection, Dewatering (Over 90 Days).

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Data

Source: Oil and Gas Conservation Commission

Telephone: 308-254-6919

RADON

State Database: NE Radon

Source: Department of Environmental Quality

Telephone: 402-471-0594

Summary of Radon Data

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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East Penn Property

528 Ave and 887 Road
Center, NE 68724

Inquiry Number: 4763055.6s

October 27, 2016

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

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Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

	Maximum Search Distance*	Summary		
		property	1/10	1/10 - 1/3
STANDARD ENVIRONMENTAL RECORDS				
Federal NPL	0.333	0	0	0
Federal CERCLIS	0.333	0	0	0
Federal RCRA CORRACTS facilities list	0.333	0	0	0
Federal RCRA TSD facilities list	0.333	0	0	0
Federal RCRA generators list	property	0	-	-
Federal institutional controls / engineering controls registries	0.333	0	0	0
Federal ERNS list	property	0	-	-
State and tribal - equivalent NPL	not searched	-	-	-
State and tribal - equivalent CERCLIS	0.333	0	0	0
State and tribal landfill / solid waste disposal	0.333	0	0	0
State and tribal leaking storage tank lists	0.333	0	0	0
State and tribal registered storage tank lists	property	0	-	-
State and tribal institutional control / engineering control registries	property	0	-	-
State and tribal voluntary cleanup sites	0.333	0	0	0
State and tribal Brownfields sites	0.333	0	0	0
Other Standard Environmental Records	0.333	0	0	0
HISTORICAL USE RECORDS				
Former manufactured Gas Plants	0.333	0	0	0
Historical Gas Stations	0.125	0	0	0
Historical Dry Cleaners	0.125	0	0	0
Exclusive Recovered Govt. Archives	property	0	-	-

*Each category may include several separate databases, each having a different search distance. For each category, the table reports the maximum search distance applied. See the section 'Record Sources and Currency' for information on individual databases.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

EAST PENN PROPERTY
528 AVE AND 887 ROAD
CENTER, NE 68724

COORDINATES

Latitude (North):	42.687147 - 42° 41' 13.722839"
Longitude (West):	97.945367 - 97° 56' 43.31726"
Elevation:	1553 ft. above sea level

EXECUTIVE SUMMARY

PHYSICAL SETTING INFORMATION

Flood Zone: Available
 NWI Wetlands: Available

AQUIFLOW®

Search Radius: 0.333 Mile.

No Aquiflow sites reported.

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: CROFTON
 Soil Surface Texture: silt loam
 Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
 Soil Drainage Class: Well drained
 Hydric Status: Not hydric
 Corrosion Potential - Uncoated Steel: Low
 Depth to Bedrock Min: > 0 inches
 Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	5 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

Soil Map ID: 2

Soil Component Name: MOODY

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
2	7 inches	42 inches	silty clay loam	Not reported	Not reported	Max: 4.233 Min: 1.411	Max: 7.3 Min: 5.6
3	42 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: THURMAN

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Not reported	Not reported	Max: 42.33 Min: 14.11	Max: 7.3 Min: 5.6
2	9 inches	59 inches	loamy fine sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.3 Min: 5.6

Soil Map ID: 4

Soil Component Name: NORA

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silty clay loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 6.1
2	7 inches	22 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.8 Min: 6.1

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	22 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 6.6

Soil Map ID: 5

Soil Component Name: CROFTON

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4
2	5 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

Soil Map ID: 6

Soil Component Name: ALCESTER

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	22 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.8 Min: 5.6
2	22 inches	50 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.8 Min: 6.1
3	50 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 6.6

Soil Map ID: 7

Soil Component Name: THURMAN

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Not reported	Not reported	Max: 42.33 Min: 14.11	Max: 7.3 Min: 5.6

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	11 inches	59 inches	loamy fine sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.3 Min: 5.6

Soil Map ID: 8

Soil Component Name: Water

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Unknown

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 9

Soil Component Name: CROFTON

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4
2	5 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

Soil Map ID: 10

Soil Component Name: HOBBS

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.8 Min: 6.1
2	7 inches	35 inches	stratified silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.8 Min: 6.1
3	35 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 6.6

Soil Map ID: 11

Soil Component Name: CROFTON

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4
2	5 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

Soil Map ID: 12

Soil Component Name: CROFTON

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4
2	7 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

EXECUTIVE SUMMARY

Soil Map ID: 13

Soil Component Name: BAZILE

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 6.5 Min: 5.1
2	11 inches	27 inches	silty clay loam	Not reported	Not reported	Max: 4.233 Min: 1.411	Max: 7.3 Min: 5.6
3	27 inches	29 inches	loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.8 Min: 6.1
4	29 inches	59 inches	sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.8 Min: 6.1

Soil Map ID: 14

Soil Component Name: MEADIN

Soil Surface Texture: sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.1
2	7 inches	11 inches	sandy loam	Not reported	Not reported	Max: 141 Min: 42	Max: 7.3 Min: 5.1
3	11 inches	59 inches	very gravelly coarse sand	Not reported	Not reported	Max: 141 Min: 141	Max: 7.3 Min: 6.1

Soil Map ID: 15

Soil Component Name: CROFTON

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4
2	5 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

Soil Map ID: 16

Soil Component Name: AOWA

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4
2	7 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

Soil Map ID: 17

Soil Component Name: PAKA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 6.6
2	11 inches	25 inches	clay loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.8 Min: 6.6

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	25 inches	53 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4
4	53 inches	59 inches	weathered bedrock	Not reported	Not reported	Max: 1 Min: 0.1	Max: Min:

Soil Map ID: 18

Soil Component Name: NORA

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silty clay loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 6.1
2	11 inches	22 inches	silty clay loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.8 Min: 6.1
3	22 inches	59 inches	silty clay loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 6.6

Soil Map ID: 19

Soil Component Name: THURMAN

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Not reported	Not reported	Max: 42.33 Min: 14.11	Max: 7.3 Min: 5.6
2	11 inches	33 inches	loamy sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.3 Min: 5.6
3	33 inches	59 inches	sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.3 Min: 5.6

Soil Map ID: 20

Soil Component Name: SIMEON

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.8 Min: 6.1
2	7 inches	59 inches	sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.8 Min: 6.1

EXECUTIVE SUMMARY

Soil Map ID: 21

Soil Component Name: LYNCH

Soil Surface Texture: silty clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silty clay	Not reported	Not reported	Max: 0.4233 Min: 0.01	Max: 8.4 Min: 7.4
2	5 inches	35 inches	silty clay	Not reported	Not reported	Max: 1.411 Min: 0.4233	Max: 8.4 Min: 7.4
3	35 inches	59 inches	weathered bedrock	Not reported	Not reported	Max: 1 Min: 0.1	Max: Min:

Soil Map ID: 22

Soil Component Name: LABU

Soil Surface Texture: silty clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	silty clay	Not reported	Not reported	Max: 1.411 Min: 0.4233	Max: 8.4 Min: 6.6
2	3 inches	33 inches	clay	Not reported	Not reported	Max: 1.411 Min: 0.4233	Max: 8.4 Min: 7.4
3	33 inches	59 inches	weathered bedrock	Not reported	Not reported	Max: 1 Min: 0.1	Max: Min:

Soil Map ID: 23

Soil Component Name: CROFTON

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4
2	7 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4

Soil Map ID: 24

Soil Component Name: PAKA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 6.6
2	9 inches	25 inches	clay loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.8 Min: 6.6
3	25 inches	53 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 7.4
4	53 inches	59 inches	weathered bedrock	Not reported	Not reported	Max: 1 Min: 0.1	Max: Min:

Soil Map ID: 25

Soil Component Name: TRENT

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 130 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	20 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	20 inches	53 inches	silty clay loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 6.1
3	53 inches	59 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 8.4 Min: 6.6

EXECUTIVE SUMMARY

SEARCH RESULTS

Unmappable (orphan) sites are not considered in the foregoing analysis.

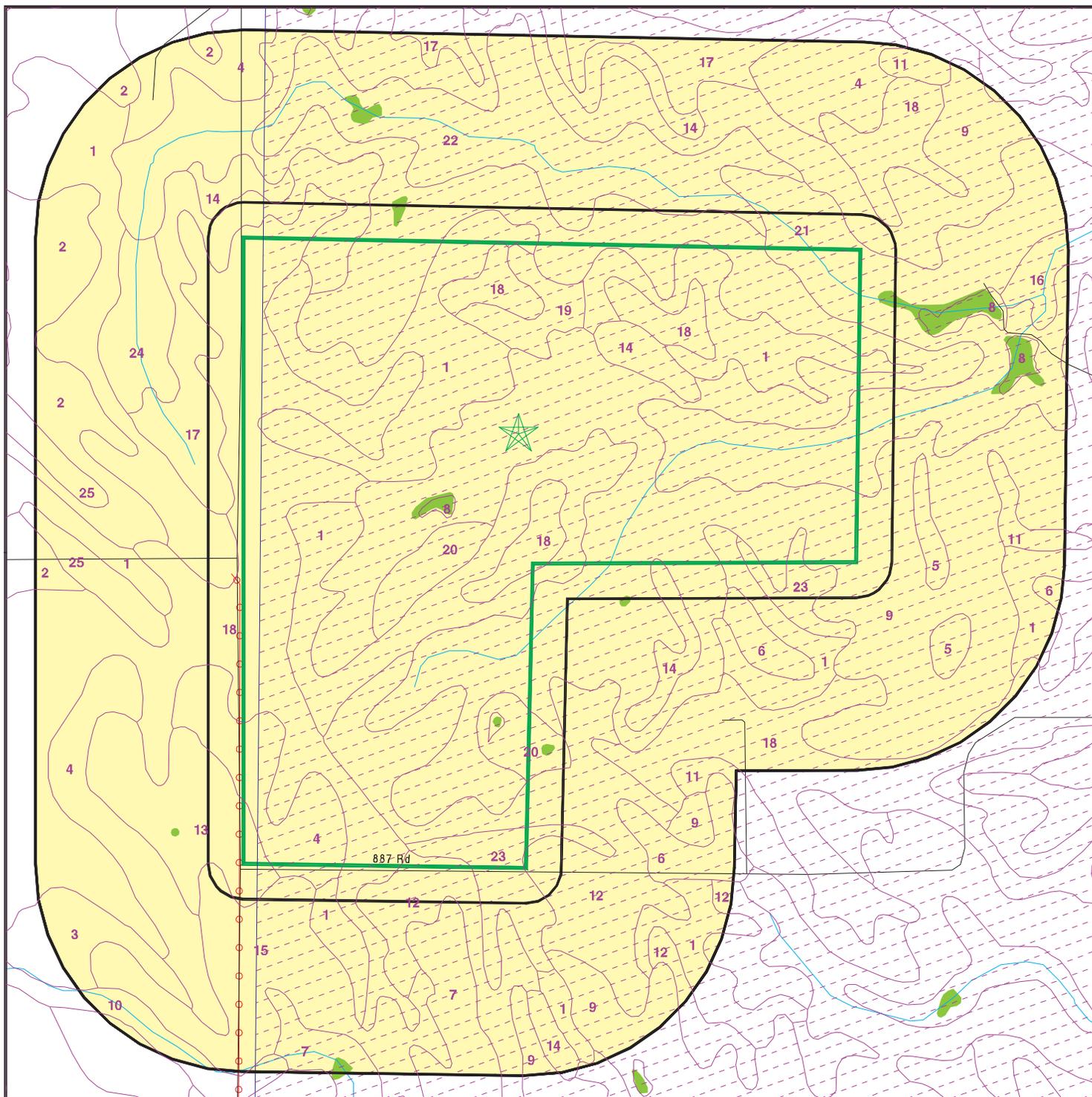
STANDARD ENVIRONMENTAL RECORDS

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
Not Reported				

HISTORICAL USE RECORDS

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
Not Reported				

PRIMARY MAP - 4763055.6S



Target Property

Sites at elevations higher than or equal to the target property

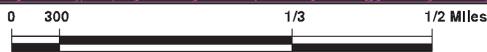
Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites



Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Groundwater Flow Direction

Indeterminate Groundwater Flow at Location

Groundwater Flow Varies at Location

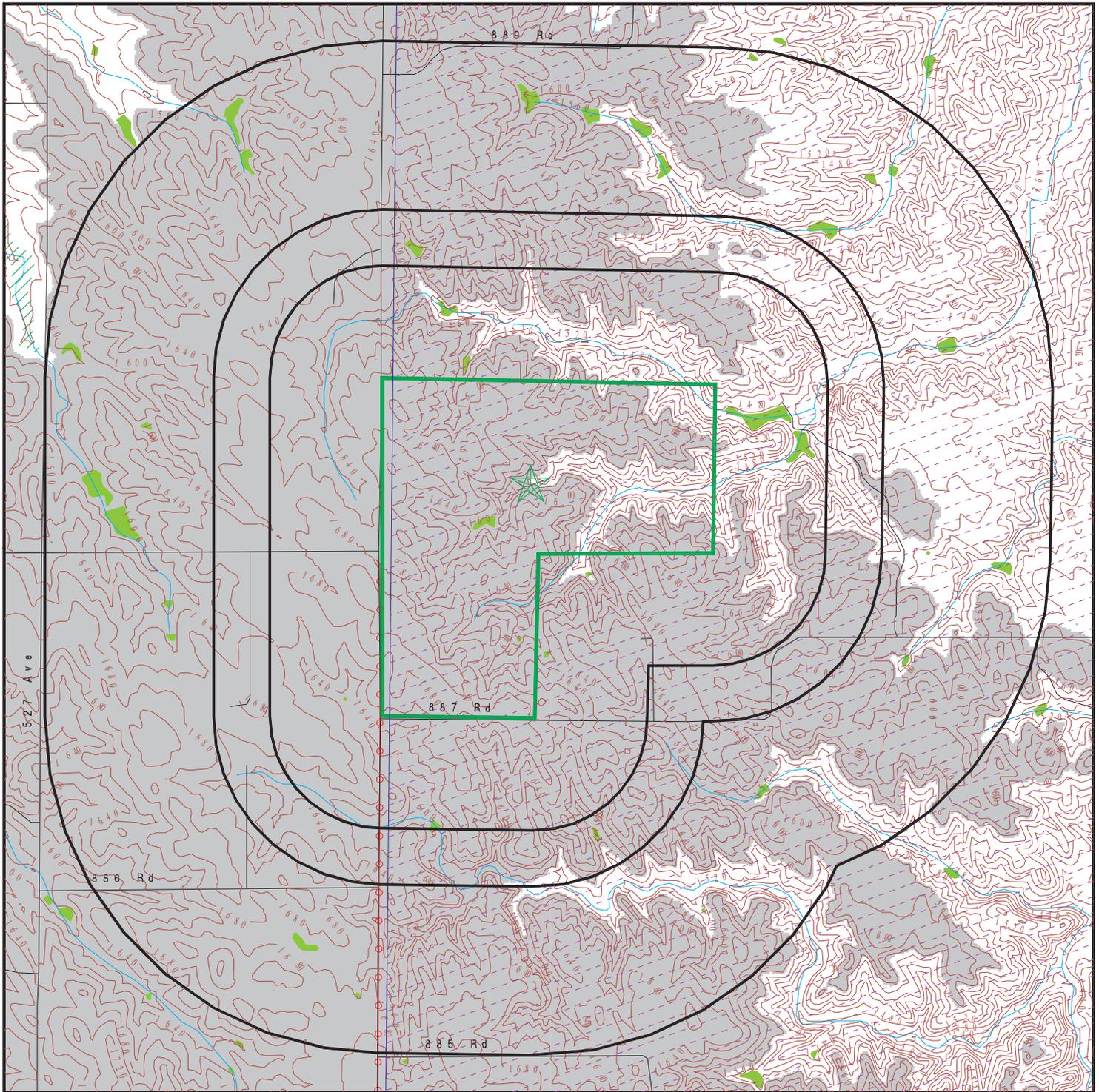
SSURGO Soil



SITE NAME: East Penn Property
 ADDRESS: 528 Ave and 887 Road
 Center NE 68724
 LAT/LONG: 42.687147 / 97.945367

CLIENT: Tetra Tech EMI
 CONTACT: Kaitlyn Bahr
 INQUIRY #: 4763055.6s
 DATE: October 26, 2016 4:08 am

SECONDARY MAP - 4763055.6S



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 Manufactured Gas Plants

 National Priority List Sites

 Dept. Defense Sites

0 1/3 1/2 1 Miles



 Indian Reservations BIA

 Upgradient Area

 Contour Lines

 Power transmission lines

 100-year flood zone

 500-year flood zone

 National Wetland Inventory

 State Wetlands



SITE NAME: East Penn Property
 ADDRESS: 528 Ave and 887 Road
 Center NE 68724
 LAT/LONG: 42.687147 / 97.945367

CLIENT: Tetra Tech EMI
 CONTACT: Kaitlyn Bahr
 INQUIRY #: 4763055.6S
 DATE: October 26, 2016 4:07 am

AERIAL PHOTOGRAPHY - 4763055.6s



<p>SITE NAME: East Penn Property ADDRESS: 528 Ave and 887 Road Center NE 68724 LAT/LONG: 42.687147 / 97.945367</p>	<p>CLIENT: Tetra Tech EMI CONTACT: Kaitlyn Bahr INQUIRY #: 4763055.6s DATE: October 26, 2016 4:09 am</p>
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MAP FINDINGS

LEGEND

FACILITY NAME		FACILITY ADDRESS, CITY, ST, ZIP		EDR SITE ID NUMBER
▼ MAP ID#	Direction	Distance Range	(Distance feet / miles)	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.
	Relative Elevation	Feet Above Sea Level		
<p>Worksheet:</p> <p>Comments: Comments may be added on the online Vapor Encroachment Worksheet.</p>				

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

RECORD SOURCES AND CURRENCY

To maintain currency of the following databases, EDR contacts the appropriate agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

PRP: Potentially Responsible Parties

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013

Source: EPA

Number of Days to Update: 3

Telephone: 202-564-6023

Last EDR Contact :08/12/2016

RMP: Risk Management Plans

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/01/2016

Source: Environmental Protection Agency

Number of Days to Update: 99

Telephone: 202-564-8600

Last EDR Contact :07/25/2016

AIRS: Air State Program List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of air program facilities.

Date of Government Version: 06/20/2016

Source: Department of Environmental Quality

Number of Days to Update: 85

Telephone: 402-471-3389

Last EDR Contact :09/19/2016

AST: AST Data

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

A listing of aboveground storage tank site locations. Aboveground storage tanks dispensing hazardous substances must register such tank with this office. Storage tanks of 1000 gallons or less are exempt from this requirement.

Date of Government Version: 05/31/2016

Source: State Fire Marshal

Number of Days to Update: 42

Telephone: 402-471-9465

Last EDR Contact :08/26/2016

BROWNFIELDS: Potential Brownfields Inventory Listing

Standard Environmental Record Source: State and tribal Brownfields sites

RECORD SOURCES AND CURRENCY

Search Distance: 0.333 Mile

"NDEQ defines a brownfields site as subpart (A) of CERCLA ? 101(39): 'Real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.' This is a broad-based approach to capture all potential brownfields sites. In the event that CERCLA 128(a) State Response Program funds are utilized - for example, conducting a Section 128(a) Assessment - the exclusions, site-by-site determinations, and further definitions as provided by the law would need to be met. This would be done on a site-by-site basis." A preliminary Survey and Inventory of Brownfields Sites in Nebraska was constructed based on previously submitted information including sites named specifically by city representatives. The list was built on facility characteristics, which were founded on previous, broad-based contamination experience. Additions to the inventory were made by looking for other sources of potential brownfields sites using Standard Industrial Classification (SIC) codes. A general sector list was constructed to serve as an inventory guide. This list shows all of the different types of sites that are within the inventory (sorted by SIC code), and the number of sites there are of each type. Color-coated blocks, which group together similar SIC codes and the sites that they encompass also sort the sectors.

Date of Government Version: 06/21/2016

Source: Department of Environmental Quality

Number of Days to Update: 84

Telephone: 402-471-2186

Last EDR Contact :09/21/2016

DRYCLEANERS: Drycleaner Facility Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

A listing of drycleaner facilities in Nebraska.

Date of Government Version: 06/20/2016

Source: Department of Environmental Quality

Number of Days to Update: 85

Telephone: 402-471-3557

Last EDR Contact :09/30/2016

Financial Assurance: Financial Assurance Information Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Financial assurance information for solid and hazardous waste sites.

Date of Government Version: 12/01/2015

Source: Department of Environmental Quality

Number of Days to Update: 69

Telephone: 402-471-2186

Last EDR Contact :09/20/2016

HIST AST: Aboveground Storage Tank Database Listing

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

A listing of aboveground storage tank locations. This listing contains detail information that the AST listing does not. It is no longer updated by the agency. For current information see the AST listing.

Date of Government Version: 10/19/2004

Source: State Fire Marshal

Number of Days to Update: 40

Telephone: 402-471-2027

Last EDR Contact :03/23/2009

HIST UST: Underground Storage Tank Database Listing

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

A listing of underground storage tank locations. This listing contains detail information that the UST listing does not. It is no longer updated by the agency. For current information see the UST listing.

Date of Government Version: 02/28/2005

Source: State Fire Marshal

Number of Days to Update: 40

Telephone: 402-471-2027

RECORD SOURCES AND CURRENCY

Last EDR Contact :02/23/2009

INST CONTROL: Nebraska's Institutional Control Registry

Standard Environmental Record Source: State and tribal institutional control / engineering control registries

Search Distance: Property

A list of sites within Nebraska that have institutional controls. According to the Environmental Protection Agency (EPA), institutional controls are "non-engineering measures designed to prevent or limit exposure to hazardous substances left in place at a site, or assure effectiveness of the chosen remedy. Institutional controls are usually, but not always, legal controls, such as easements, restrictive covenants, and zoning ordinances." In short, institutional controls are a type of environmental covenant typically used when property is to be cleaned up to a level determined by the potential environmental risks posed by a planned use, rather than to unrestricted use standards. This method of control has proven to be both environmentally and economically beneficial.

Date of Government Version: 03/14/2016

Source: Department of Environmental Quality

Number of Days to Update: 49

Telephone: 402-471-2214

Last EDR Contact :09/23/2016

LAST: Leaking Aboveground Storage Tank Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

Releases from an aboveground storage tank system.

Date of Government Version: 07/27/2016

Source: Department of Environmental Quality

Number of Days to Update: 47

Telephone: 402-471-3557

Last EDR Contact :10/11/2016

LUST: Leaking Underground Storage Tank Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 07/27/2016

Source: Department of Environmental Quality

Number of Days to Update: 47

Telephone: 402-471-3557

Last EDR Contact :10/11/2016

NPDES: Wastewater Database Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of permitted wastewater facilities.

Date of Government Version: 06/06/2016

Source: Department of Environmental Quality

Number of Days to Update: 41

Telephone: 402-471-3557

Last EDR Contact :09/06/2016

SHWS: Superfund State Program List

Standard Environmental Record Source: State and tribal - equivalent CERCLIS

Search Distance: 0.333 Mile

The Nebraska Department of Environmental Quality is providing this information from its own database. The data, although not verified to be the most current or accurate for any specific site, is generally based on the contents of the physical documents in the files. You may contact the Records Management Unit at (402) 471-3557 to make arrangements to view or to get a photocopy of the physical file.

Date of Government Version: 06/20/2016

Source: Dept. of Environmental Quality

RECORD SOURCES AND CURRENCY

Number of Days to Update: 85
Last EDR Contact :09/19/2016

Telephone: 402-471-3557

SPILLS: Surface Spill List

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Releases of petroleum or hazardous substances to the air, land, or water.

Date of Government Version: 07/27/2016
Number of Days to Update: 47
Last EDR Contact :10/11/2016

Source: Department of Environmental Quality
Telephone: 402-471-2186

SWF/LF: Licensed Landfill List

Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Search Distance: 0.333 Mile

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/27/2016
Number of Days to Update: 47
Last EDR Contact :09/19/2016

Source: Department of Environmental Quality
Telephone: 402-471-4210

SWRCY: Recycling Resource Directory

Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Search Distance: 0.333 Mile

A listing of recycling facilities.

Date of Government Version: 09/26/2014
Number of Days to Update: 38
Last EDR Contact :09/19/2016

Source: Department of Environmental Quality
Telephone: 402-471-6974

TIER 2: Tier 2 Facility Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

Date of Government Version: 12/31/2015
Number of Days to Update: 44
Last EDR Contact :09/06/2016

Source: Department of Environmental Quality
Telephone: 402-471-3557

UIC: Underground Injection Control Database

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 05/04/2016
Number of Days to Update: 64
Last EDR Contact :07/29/2016

Source: Department of Environmental Quality
Telephone: 402-471-2186

UST: Facility and Tank Data

RECORD SOURCES AND CURRENCY

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/17/2016

Source: Nebraska State Fire Marshal

Number of Days to Update: 42

Telephone: 402-471-9664

Last EDR Contact :08/03/2016

VCP: RAPMA Sites

Standard Environmental Record Source: State and tribal voluntary cleanup sites

Search Distance: 0.333 Mile

The Remedial Action Plan Monitoring Act (RAPMA), initially created in 1995, provides property owners and parties responsible for contamination with a mechanism for developing voluntary environmental cleanup plans which are reviewed and approved by the Department.

Date of Government Version: 03/14/2016

Source: Department of Environmental Quality

Number of Days to Update: 49

Telephone: 402-471-2186

Last EDR Contact :09/23/2016

2020 COR ACTION: 2020 Corrective Action Program List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013

Source: Environmental Protection Agency

Number of Days to Update: 6

Telephone: 703-308-4044

Last EDR Contact :09/06/2016

COAL ASH DOE: Steam-Electric Plant Operation Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005

Source: Department of Energy

Number of Days to Update: 76

Telephone: 202-586-8719

Last EDR Contact :09/09/2016

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014

Source: Environmental Protection Agency

Number of Days to Update: 40

Telephone: Not Reported

Last EDR Contact :09/06/2016

CONSENT: Superfund (CERCLA) Consent Decrees

RECORD SOURCES AND CURRENCY

Standard Environmental Record Source: Federal NPL
Search Distance: 0.333 Mile

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2016 Source: Department of Justice, Consent Decree Library
Number of Days to Update: 53 Telephone: Varies
Last EDR Contact :09/26/2016

CORRACTS: Corrective Action Report

Standard Environmental Record Source: Federal RCRA CORRACTS facilities list
Search Distance: 0.333 Mile

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016 Source: EPA
Number of Days to Update: 64 Telephone: 800-424-9346
Last EDR Contact :09/28/2016

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Search Distance: 0.333 Mile

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Source: EPA, Region 9
Number of Days to Update: 137 Telephone: 415-947-4219
Last EDR Contact :10/24/2016

DOCKET HWC: Hazardous Waste Compliance Docket Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016 Source: Environmental Protection Agency
Number of Days to Update: 91 Telephone: 202-564-0527
Last EDR Contact :08/24/2016

DOT OPS: Incident and Accident Data

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Source: Department of Transportation, Office of Pipeline Safety
Number of Days to Update: 42 Telephone: 202-366-4595
Last EDR Contact :08/02/2016

Delisted NPL: National Priority List Deletions

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

RECORD SOURCES AND CURRENCY

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016

Source: EPA

Number of Days to Update: 10

Telephone: Not Reported

Last EDR Contact :10/05/2016

ECHO: Enforcement & Compliance History Information

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016

Source: Environmental Protection Agency

Number of Days to Update: 31

Telephone: 202-564-2280

Last EDR Contact :09/20/2016

EPA WATCH LIST: EPA WATCH LIST

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013

Source: Environmental Protection Agency

Number of Days to Update: 88

Telephone: 617-520-3000

Last EDR Contact :08/08/2016

ERNS: Emergency Response Notification System

Standard Environmental Record Source: Federal ERNS list

Search Distance: Property

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016

Source: National Response Center, United States Coast Guard

Number of Days to Update: 51

Telephone: 202-267-2180

Last EDR Contact :09/29/2016

FEMA UST: Underground Storage Tank Listing

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010

Source: FEMA

Number of Days to Update: 55

Telephone: 202-646-5797

Last EDR Contact :10/11/2016

FINDS: Facility Index System/Facility Registry System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

RECORD SOURCES AND CURRENCY

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015 Source: EPA
Number of Days to Update: 55 Telephone: Not Reported
Last EDR Contact :09/07/2016

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Number of Days to Update: 25 Telephone: 202-566-1667
Last EDR Contact :08/17/2016

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Standard Environmental Record Source: Other Standard Environmental Records
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Source: EPA
Number of Days to Update: 25 Telephone: 202-566-1667
Last EDR Contact :08/17/2016

FUDS: Formerly Used Defense Sites

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015 Source: U.S. Army Corps of Engineers
Number of Days to Update: 97 Telephone: 202-528-4285
Last EDR Contact :09/09/2016

FUELS PROGRAM: EPA Fuels Program Registered Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2016 Source: EPA
Number of Days to Update: 59 Telephone: 800-385-6164
Last EDR Contact :08/23/2016

FUSRAP: Formerly Utilized Sites Remedial Action Program

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

RECORD SOURCES AND CURRENCY

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016 Source: Department of Energy
Number of Days to Update: 59 Telephone: 202-586-3559
Last EDR Contact :07/26/2016

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Source: Environmental Protection Agency
Number of Days to Update: 40 Telephone: 202-564-2501
Last EDR Contact :12/17/2007

HMIRS: Hazardous Materials Information Reporting System

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/2016 Source: U.S. Department of Transportation
Number of Days to Update: 87 Telephone: 202-366-4555
Last EDR Contact :09/27/2016

ICIS: Integrated Compliance Information System

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/27/2016 Source: Environmental Protection Agency
Number of Days to Update: 77 Telephone: 202-564-5088
Last EDR Contact :10/11/2016

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015 Source: EPA Region 1
Number of Days to Update: 67 Telephone: 617-918-1313
Last EDR Contact :07/29/2016

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

RECORD SOURCES AND CURRENCY

Date of Government Version: 01/07/2016
Number of Days to Update: 41
Last EDR Contact :07/27/2016

Source: EPA Region 10
Telephone: 206-553-2857

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016
Number of Days to Update: 35
Last EDR Contact :07/26/2016

Source: EPA Region 4
Telephone: 404-562-8677

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016
Number of Days to Update: 37
Last EDR Contact :07/27/2016

Source: EPA, Region 5
Telephone: 312-886-7439

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015
Number of Days to Update: 105
Last EDR Contact :07/27/2016

Source: EPA Region 6
Telephone: 214-665-6597

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015
Number of Days to Update: 112
Last EDR Contact :07/27/2016

Source: EPA Region 7
Telephone: 913-551-7003

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Number of Days to Update: 118
Last EDR Contact :07/27/2016

Source: EPA Region 8
Telephone: 303-312-6271

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016
Number of Days to Update: 37
Last EDR Contact :07/27/2016

Source: Environmental Protection Agency
Telephone: 415-972-3372

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Standard Environmental Record Source: Other Standard Environmental Records

RECORD SOURCES AND CURRENCY

Search Distance: 0.333 Mile

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998

Source: Environmental Protection Agency

Number of Days to Update: 52

Telephone: 703-308-8245

Last EDR Contact :08/05/2016

INDIAN UST R1: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015

Source: EPA, Region 1

Number of Days to Update: 67

Telephone: 617-918-1313

Last EDR Contact :07/29/2016

INDIAN UST R10: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016

Source: EPA Region 10

Number of Days to Update: 41

Telephone: 206-553-2857

Last EDR Contact :07/27/2016

INDIAN UST R4: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016

Source: EPA Region 4

Number of Days to Update: 35

Telephone: 404-562-9424

Last EDR Contact :07/26/2016

INDIAN UST R5: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015

Source: EPA Region 5

Number of Days to Update: 52

Telephone: 312-886-6136

Last EDR Contact :07/27/2016

INDIAN UST R6: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015

Source: EPA Region 6

Number of Days to Update: 120

Telephone: 214-665-7591

Last EDR Contact :07/27/2016

RECORD SOURCES AND CURRENCY

INDIAN UST R7: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014

Source: EPA Region 7

Number of Days to Update: 65

Telephone: 913-551-7003

Last EDR Contact :07/27/2016

INDIAN UST R8: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016

Source: EPA Region 8

Number of Days to Update: 119

Telephone: 303-312-6137

Last EDR Contact :07/27/2016

INDIAN UST R9: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016

Source: EPA Region 9

Number of Days to Update: 37

Telephone: 415-972-3368

Last EDR Contact :07/27/2016

INDIAN VCP R1: Voluntary Cleanup Priority Listing

Standard Environmental Record Source: State and tribal voluntary cleanup sites

Search Distance: Property

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015

Source: EPA, Region 1

Number of Days to Update: 142

Telephone: 617-918-1102

Last EDR Contact :09/26/2016

INDIAN VCP R7: Voluntary Cleanup Priority Listing

Standard Environmental Record Source: State and tribal voluntary cleanup sites

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008

Source: EPA, Region 7

Number of Days to Update: 27

Telephone: 913-551-7365

Last EDR Contact :04/20/2009

LEAD SMELTER 1: Lead Smelter Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016

Source: Environmental Protection Agency

Number of Days to Update: 148

Telephone: 703-603-8787

Last EDR Contact :10/20/2016

RECORD SOURCES AND CURRENCY

LEAD SMELTER 2: Lead Smelter Sites

Standard Environmental Record Source: Other Standard Environmental Records

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001

Source: American Journal of Public Health

Number of Days to Update: 36

Telephone: 703-305-6451

Last EDR Contact :12/02/2009

LIENS 2: CERCLA Lien Information

Standard Environmental Record Source: Federal CERCLIS

Search Distance: Property

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014

Source: Environmental Protection Agency

Number of Days to Update: 37

Telephone: 202-564-6023

Last EDR Contact :07/29/2016

LUCIS: Land Use Control Information System

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: 0.333 Mile

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015

Source: Department of the Navy

Number of Days to Update: 13

Telephone: 843-820-7326

Last EDR Contact :10/14/2016

MLTS: Material Licensing Tracking System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016

Source: Nuclear Regulatory Commission

Number of Days to Update: 43

Telephone: 301-415-7169

Last EDR Contact :09/05/2016

NPL: National Priority List

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016

Source: EPA

Number of Days to Update: 10

Telephone: Not Reported

Last EDR Contact :10/05/2016

NPL Site Boundaries

RECORD SOURCES AND CURRENCY

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-566-0690

EPA Region 1
Telephone: 617-918-1102

EPA Region 2
Telephone: 212-637-4293

EPA Region 3
Telephone: 215-814-5418

EPA Region 4
Telephone: 404-562-8681

EPA Region 5
Telephone: 312-353-1063

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6118

EPA Region 9
Telephone: 415-947-4579

EPA Region 10
Telephone: 206-553-4479

NPL LIENS: Federal Superfund Liens

Standard Environmental Record Source: Federal NPL

Search Distance: Property

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991

Source: EPA

Number of Days to Update: 56

Telephone: 202-564-4267

Last EDR Contact :08/15/2011

ODI: Open Dump Inventory

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985

Source: Environmental Protection Agency

Number of Days to Update: 39

Telephone: 800-424-9346

Last EDR Contact :06/09/2004

PADS: PCB Activity Database System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016

Source: EPA

Number of Days to Update: 127

Telephone: 202-566-0500

RECORD SOURCES AND CURRENCY

Last EDR Contact :10/14/2016

PCB TRANSFORMER: PCB Transformer Registration Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011

Source: Environmental Protection Agency

Number of Days to Update: 83

Telephone: 202-566-0517

Last EDR Contact :07/29/2016

Proposed NPL: Proposed National Priority List Sites

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016

Source: EPA

Number of Days to Update: 10

Telephone: Not Reported

Last EDR Contact :10/05/2016

RAATS: RCRA Administrative Action Tracking System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995

Source: EPA

Number of Days to Update: 35

Telephone: 202-564-4104

Last EDR Contact :06/02/2008

RADINFO: Radiation Information Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/03/2016

Source: Environmental Protection Agency

Number of Days to Update: 16

Telephone: 202-343-9775

Last EDR Contact :10/05/2016

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/21/2016

Source: Environmental Protection Agency

RECORD SOURCES AND CURRENCY

Number of Days to Update: 64
Last EDR Contact :09/28/2016

Telephone: 703-308-8895

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list
Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016
Number of Days to Update: 64
Last EDR Contact :09/28/2016

Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-LQG: RCRA - Large Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list
Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016
Number of Days to Update: 64
Last EDR Contact :09/28/2016

Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-SQG: RCRA - Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list
Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/21/2016
Number of Days to Update: 64
Last EDR Contact :09/28/2016

Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

Standard Environmental Record Source: Federal RCRA TSD facilities list
Search Distance: 0.333 Mile

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/21/2016
Number of Days to Update: 64
Last EDR Contact :09/28/2016

Source: Environmental Protection Agency
Telephone: 703-308-8895

ROD: Records Of Decision

RECORD SOURCES AND CURRENCY

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013

Source: EPA

Number of Days to Update: 74

Telephone: 703-416-0223

Last EDR Contact :09/09/2016

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011

Source: Environmental Protection Agency

Number of Days to Update: 54

Telephone: 615-532-8599

Last EDR Contact :10/20/2016

SEMS: Superfund Enterprise Management System

Standard Environmental Record Source: Federal CERCLIS

Search Distance: 0.333 Mile

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016

Source: EPA

Number of Days to Update: 10

Telephone: 800-424-9346

Last EDR Contact :10/20/2016

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016

Source: EPA

Number of Days to Update: 10

Telephone: 800-424-9346

Last EDR Contact :10/20/2016

SSTS: Section 7 Tracking Systems

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

RECORD SOURCES AND CURRENCY

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009

Source: EPA

Number of Days to Update: 77

Telephone: 202-564-4203

Last EDR Contact :10/24/2016

TRIS: Toxic Chemical Release Inventory System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014

Source: EPA

Number of Days to Update: 133

Telephone: 202-566-0250

Last EDR Contact :08/26/2016

TSCA: Toxic Substances Control Act

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012

Source: EPA

Number of Days to Update: 14

Telephone: 202-260-5521

Last EDR Contact :09/23/2016

UMTRA: Uranium Mill Tailings Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010

Source: Department of Energy

Number of Days to Update: 146

Telephone: 505-845-0011

Last EDR Contact :09/09/2016

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 06/30/2016

Source: EPA

Number of Days to Update: 88

Telephone: 202-564-2496

Last EDR Contact :09/26/2016

US AIRS MINOR: Air Facility System Data

RECORD SOURCES AND CURRENCY

Standard Environmental Record Source: Other Standard Environmental Records
A listing of minor source facilities.

Date of Government Version: 06/30/2016

Source: EPA

Number of Days to Update: 88

Telephone: 202-564-2496

Last EDR Contact :09/26/2016

US BROWNFIELDS: A Listing of Brownfields Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/21/2016

Source: Environmental Protection Agency

Number of Days to Update: 72

Telephone: 202-566-2777

Last EDR Contact :09/21/2016

US CDL: Clandestine Drug Labs

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/30/2016

Source: Drug Enforcement Administration

Number of Days to Update: 17

Telephone: 202-307-1000

Last EDR Contact :08/31/2016

US ENG CONTROLS: Engineering Controls Sites List

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016

Source: Environmental Protection Agency

Number of Days to Update: 93

Telephone: 703-603-0695

Last EDR Contact :08/31/2016

US FIN ASSUR: Financial Assurance Information

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 07/12/2016

Source: Environmental Protection Agency

Number of Days to Update: 65

Telephone: 202-566-1917

RECORD SOURCES AND CURRENCY

Last EDR Contact :08/17/2016

US HIST CDL: National Clandestine Laboratory Register

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016

Source: Drug Enforcement Administration

Number of Days to Update: 17

Telephone: 202-307-1000

Last EDR Contact :08/31/2016

US INST CONTROL: Sites with Institutional Controls

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016

Source: Environmental Protection Agency

Number of Days to Update: 93

Telephone: 703-603-0695

Last EDR Contact :08/31/2016

US MINES: Mines Master Index File

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016

Source: Department of Labor, Mine Safety and Health Administration

Number of Days to Update: 22

Telephone: 303-231-5959

Last EDR Contact :09/01/2016

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

Standard Environmental Record Source: Other Standard Environmental Records

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005

Source: USGS

Number of Days to Update: 49

Telephone: 703-648-7709

Last EDR Contact :09/02/2016

US MINES 3: Active Mines & Mineral Plants Database Listing

Standard Environmental Record Source: Other Standard Environmental Records

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011

Source: USGS

Number of Days to Update: 97

Telephone: 703-648-7709

Last EDR Contact :09/02/2016

DOD: Department of Defense Sites

Standard Environmental Record Source: Other Standard Environmental Records

RECORD SOURCES AND CURRENCY

Search Distance: 0.333 Mile

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005

Source: USGS

Number of Days to Update: 62

Telephone: 888-275-8747

Last EDR Contact :10/14/2016

INDIAN RESERV: Indian Reservations

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005

Source: USGS

Number of Days to Update: 34

Telephone: 202-208-3710

Last EDR Contact :10/14/2016

PWS: Public Water System Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This Safe Drinking Water Information System (SDWIS) file contains public water systems name and address, population served and the primary source of water

Date of Government Version: 12/17/2013

Source: EPA

Number of Days to Update: 279

Telephone: Not Reported

Last EDR Contact :08/29/2016

RECORD SOURCES AND CURRENCY

HISTORICAL USE RECORDS

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

Standard Environmental Record Source: Exclusive Recovered Govt. Archives

Search Distance: Property

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Nebraska.

Date of Government Version: Not Reported

Source: Department of Environmental Quality

Number of Days to Update: 186

Telephone: Not Reported

Last EDR Contact :06/01/2012

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

Standard Environmental Record Source: Exclusive Recovered Govt. Archives

Search Distance: Property

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Nebraska.

Date of Government Version: Not Reported

Source: Department of Environmental Quality

Number of Days to Update: 186

Telephone: Not Reported

Last EDR Contact :06/01/2012

EDR Hist Auto: EDR Exclusive Historic Gas Stations

Standard Environmental Record Source: Historical Gas Stations

Search Distance: 0.125 Mile

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: 02/20/2007

Source: EDR, Inc.

Number of Days to Update: 42

Telephone: Not Reported

Last EDR Contact :02/21/2007

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

Standard Environmental Record Source: Historical Dry Cleaners

Search Distance: 0.125 Mile

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: 02/20/2007

Source: EDR, Inc.

Number of Days to Update: 42

Telephone: Not Reported

Last EDR Contact :02/21/2007

EDR MGP: EDR Proprietary Manufactured Gas Plants

Standard Environmental Record Source: Former manufactured Gas Plants

Search Distance: 0.333 Mile

RECORD SOURCES AND CURRENCY

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: 08/28/2009

Source: EDR, Inc.

Number of Days to Update: 55

Telephone: Not Reported

Last EDR Contact :11/30/2012

RECORD SOURCES AND CURRENCY

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5' minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW® Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW® Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services. The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

STREET AND ADDRESS INFORMATION

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APPENDIX F
HISTORICAL USE DOCUMENTATION

APPENDIX F-1

HISTORICAL PROPERTY OWNERSHIP

UNITED STATES
Dwight Pratt

The United States of America:

FILED FOR RECORD,
July 3 1888

To All to whom these Presents shall Come, Greeting:

HOMESTEAD Certificate, No. 4310
APPLICATION

Whereas, *Dwight Pratt* of *New York* has been deposited in the General Land Office of the United States a Certificate of the Register of the Land Office at *New York*, *New York*, whereby it appears that, *in compliance with the act of Congress, approved 20th May, 1862, to secure homesteads to actual settlers on the public domain, and the acts supplementary thereto, the claim of* *Dwight Pratt* *according to the provisions of the act of Congress, approved 20th May, 1862, entitled "An Act to settle public lands for the benefit of the people of the United States," and the act supplementary thereto, the claim of* *Dwight Pratt* *for the south west quarter of Section Six* *in Township* *North* *of Range Six West of the Sixth Principal Meridian in* *Michigan*, containing one hundred and fifty acres according to the official Plat of the Survey of the said lands returned to the General Land Office by the Surveyor General and has been purchased by the said *Dwight Pratt* and that the United States of America in consideration of the premium and in compliance with the various acts of Congress in relation to said lands have granted their power and authority to give and grant unto the said *Dwight Pratt* and to his heirs the said tract above described together with all the right, privileges, immunities and appurtenances of whatever nature thereto belonging unto the said

according to the Official Plat of the survey of the said land, returned to the General Land Office by the Surveyor General:

Now Know Ye, That there is therefore granted by the United States unto the said *Dwight Pratt* the tract of land above described, to have and to hold the said tract of land, with the appurtenances thereof, unto the said *Dwight Pratt* and to his heirs and assigns forever.

In Testimony Whereof, I *Chester A. Arthur* President of the United States of America have caused these letters to be made patent, and the Seal of the General Land Office to be hereunto affixed.

Given under my Hand, at the City of Washington, the *four* day of *August* in the year of our Lord one thousand eight hundred and *eighty three*, and of the Independence of the United States the *seventy seventh*

(SEAL.)

By the President *Chester A. Arthur*
By *O. L. Spaulding*, Secretary.

Recorded Vol. *8*, Page *442*

W. H. Kellogg Recorder of the General Land Office.

F/375

UNITED STATES,
Anna Harban

The United States of America:

FILED FOR RECORD,
Aug 28 1888

To All to whom these Presents shall Come, Greeting:

HOMESTEAD Certificate, No. 7177
APPLICATION

Whereas, *Anna Harban* of *Michigan* has been deposited in the General Land Office of the United States a Certificate of the Register of the Land Office at *Michigan*, whereby it appears that, *in compliance with the act of Congress, approved 20th May, 1862, to secure homesteads to actual settlers on the public domain, and the acts supplementary thereto, the claim of* *Anna Harban* *according to the provisions of the act of Congress, approved 20th May, 1862, entitled "An Act to settle public lands for the benefit of the people of the United States," and the act supplementary thereto, the claim of* *Anna Harban* *for the south west quarter of Section Six* *in Township* *North* *of Range Six West of the Sixth Principal Meridian in* *Michigan*, containing one hundred and fifty acres according to the official Plat of the Survey of the said lands returned to the General Land Office by the Surveyor General and has been purchased by the said *Anna Harban* and that the United States of America in consideration of the premium and in compliance with the various acts of Congress in relation to said lands have granted their power and authority to give and grant unto the said *Anna Harban* and to her heirs the said tract above described together with all the right, privileges, immunities and appurtenances of whatever nature thereto belonging

according to the Official Plat of the survey of the said land, returned to the General Land Office by the Surveyor General:

Now Know Ye, That there is therefore granted by the United States unto the said *Anna Harban* the tract of land above described, to have and to hold the said tract of land, with the appurtenances thereof, unto the said *Anna Harban* and to her heirs and assigns forever.

In Testimony Whereof, I *Chester A. Arthur* President of the United States of America have caused these letters to be made patent, and the Seal of the General Land Office to be hereunto affixed.

(SEAL.)

Given under my Hand, at the City of Washington, the *fourteenth* day of *April* in the year of our Lord one thousand eight hundred and *eighty eight*, and of the Independence of the United States the *seventy eighth*

By the President *Chester A. Arthur*
By *M. M. Hanna*, Secretary.

Recorded Vol. *12*, Page *273*

Robert W. Ross Recorder of the General Land Office.

DEED RECORD.

OMAHA PRINTING CO.

FROM

Anna Karban

TO

Joseph Souer

Warranty Deed.

Filed for Record this *3* day of

Jan 189*4*, at *10* o'clock,

A. M.

Geo Van Camp County Clerk.

Deputy.

Know all Men by these Presents, That *I Anna Karban Single*

of the County of *Cook* and State of *Illinois* for and in consideration of the sum of *Twelve Hundred* DOLLARS,

in hand paid, do hereby GRANT, BARGAIN, SELL, CONVEY AND CONFIRM unto *Joseph Souer*

of the County of *Knox* and State of *Nebraska* the following described Real Estate, situated in *Knox* County and State of *Nebraska* to wit:

The South West quarter of Section Six (6) in Township Thirty one (31) of Range five (5) West of 5th P.M. containing One hundred and forty acres, more or less according to government survey

and *I* do hereby covenant with the said *Joseph Souer* and his heirs and assigns,

that *I am* lawfully seized of said premises; that they are free from incumbrance; that *I* have good right and lawful authority to sell the same; and *I* do hereby covenant to warrant and defend the title to said premises against the lawful claims of all persons whomsoever.

And the said *Anna Karban Single* hereby relinquishes all *claims* in and to the above described premises.

SIGNED this *17th* day of *November* A. D. 189*3*

IN PRESENCE OF

Peter J Schreiner

L. Eich

Anna Karban

The State of ~~Nebraska~~ ^{Illinois} } ss.
~~COOK~~ COUNTY.

On this *17th* day of *November*

A. D. 189*3*, before me, *Peter J Schreiner* a Notary Public duly ~~commissioned~~ and qualified for and residing in said County, personally came

Anna Karban (Single)

to me known to be the identical person described in and who executed the foregoing conveyance as grantor and acknowledged the said instrument to be *her* voluntary act and deed.

WITNESS my hand and *Notarial Seal* the day and year last above written.

Seal

Peter J Schreiner
Notary Public

W/462

WARRANT DEED RECORD, W,

Perkins Bros. Co., Manufacturing Stationers, Sioux City, Iowa.

Joseph Soumer sup

TO

Joseph K. Soumer

Entered in Numerical Index and filed for Record in the Clerk's office of said County, the 19th day of June 1899 at 11 o'clock and 50 minutes A.M.

Phil B. Clark

County Clerk.

Deputy.

Know all Men by these Presents, That W^e Joseph Soumer and Marie Soumer (Lundak + wife) of the County of Knox and State of Nebraska for and in consideration of the sum of

One thousand

DOLLARS,

in hand paid, do hereby GRANT, BARGAIN, SELL, CONVEY AND CONFIRM unto

Joseph K. Soumer

of the County of Knox and State of Nebraska the following

described Real Estate situated in the County of Knox and State of Nebraska to-wit:

The South West quarter of section six (6) Township Thirty One (31) North of Range (5) five West of 6th P.M.

and We do hereby covenant with the said Joseph K. Soumer and his heirs and assigns that we lawfully

seized of said premises; that they are free from incumbrance; that we have good right and lawful authority to sell the same,

and we do hereby covenant to warrant and defend the title to said premises against the lawfull claims of all persons whomsoever.

And the said Marie Soumer wife of Joseph Soumer hereby relinquishes all her right of dower in and to the above described premises.

SIGNED this 19th day of June A. D. 1899

IN PRESENCE OF

Frank Lundak

Joseph Soumer
Marie Soumer

Rev. 100
F. X.
6-19-99

THE STATE OF NEBRASKA, Knox County, ss.

On this 19th day of June A. D. 1899 before me Frank Lundak

a Notary Public duly commissioned and qualified for and residing in said County, personally came

Joseph Soumer and Marie Soumer

to me known to be the identical person described in and who executed the foregoing conveyance as grantors and acknowledged the said instrument to be their voluntary act and deed.

WITNESS my hand and Notarial Seal the day and year last above written.

commission expires June 5th 1902.

Frank Lundak Notary Public



L/144
PATENT RECORD.

UNITED STATES

The United States of America:

FILED FOR RECORD.

Michael Moolick

Dec 21 8 PM 1892

To All to Whom these Presents shall Come, Greeting:

HOMESTEAD Certificate, No. 3207 }
APPLICATION 3793 }

Whereas, There has been deposited in the General Land Office of the United States a Certificate of the Register of the Land Office at Nebraska whereby it appears that, pursuant to the Act of Congress, approved 20th May, 1862, "To secure homesteads to actual settlers on the public domain," and the acts supplemental thereto, the claim of Michael Moolick

has been established and duly consummated in conformity to law, for the North half of the north east quarter and the North half of the north West quarter of Section Twenty seven in Township thirty one north of Range seven west of the Sixth Principal Meridian in Nebraska containing one hundred and sixty acres

according to the Official Plat of the survey of the said land, returned to the General Land Office by the Surveyor General:

Now Know Ye, That there is therefore granted by the United States unto the said Michael Moolick the tract of land above described, to have and to hold the said tract of land, with the appurtenances thereof, unto the said Michael Moolick and to his heirs and assigns forever.

In Testimony Whereof, I Benjamin Harrison President of the United States of America, have caused these letters to be made patent, and the Seal of the General Land Office to be hereunto affixed.

Given under my Hand, at the City of Washington, the eighteenth day of July in the year of our Lord one thousand eight hundred and eighty nine, and of the Independence of the United States the thirteenth



By the President Benjamin Harrison

By M. McKean, Secretary.

Recorded Vol. 7, Page 191

M. Townsend Recorder of the General Land Office.

L/144
UNITED STATES

The United States of America:

FILED FOR RECORD.

Alex A Conklin

Dec 23 7 PM 1892

To All to Whom these Presents shall Come, Greeting:

L/144

HOMESTEAD Certificate, No. 4129 }
APPLICATION 12612 }

Whereas, There has been deposited in the General Land Office of the United States a Certificate of the Register of the Land Office at Nebraska whereby it appears that, pursuant to the Act of Congress, approved 20th May, 1862, "To secure homesteads to actual settlers on the public domain," and the acts supplemental thereto, the claim of Alex A Conklin

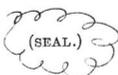
has been established and duly consummated in conformity to law, for the South East quarter of Section six in Township thirty one North of Range five West of the Sixth Principal Meridian Nebraska containing one hundred and sixty

according to the Official Plat of the survey of the said land, returned to the General Land Office by the Surveyor General:

Now Know Ye, That there is therefore granted by the United States unto the said Alex A Conklin the tract of land above described, to have and to hold the said tract of land, with the appurtenances thereof, unto the said Alex A Conklin and to his heirs and assigns forever.

In Testimony Whereof, I Benjamin Harrison President of the United States of America have caused these letters to be made patent, and the Seal of the General Land Office to be hereunto affixed.

Given under my Hand, at the City of Washington, the twenty ninth day of August in the year of our Lord one thousand eight hundred and ninety, and of the Independence of the United States the thirteenth



By the President Benjamin Harrison

By M. McKean, Secretary.

Recorded Vol. 9, Page 186

M. Townsend Recorder of the General Land Office.

DEED RECORD.

FROM H A Conklin wife
 TO Louis W. Werner
 Warrant Deed.

Filed for Record this 28 day of Dec 1892, at 9 o'clock, A. M.
Chas Van Camp County Clerk.
 Deputy.

Know all Men by these Presents, That Hyer A Conklin and Susan A Conklin husband and wife of the County of Knox and State of Nebraska for and in consideration of the sum of Fourteen Hundred and Fifty DOLLARS, in hand paid, do hereby GRANT, BARGAIN, SELL, CONVEY AND CONFIRM unto Louis W Werner

of the County of Woodbury and State of Iowa the following described Real Estate, situated in Knox County and State of Nebraska to wit:

The South East quarter (SE 1/4) of Section Six (6) in Township thirty one North of Range five (5) West of the Sixth (6) P.M.
 Containing One hundred and sixty acres according to the Government Survey. The said grantee hereby assumes the mortgage of \$200⁰⁰ on said premises as a part of the consideration herein and also assumes all taxes due thereon.

and we do hereby covenant with the said Louis W Werner and his heirs and assigns, that we are lawfully seized of said premises; that they are free from incumbrance; that we have good right and lawful authority to sell the same; and we do hereby covenant to warrant and defend the title to said premises against the lawful claims of all persons whomsoever.

And the said Susan A Conklin wife of Hyer A Conklin hereby relinquishes all her right of dower in and to the above described premises.

SIGNED this 23rd day of December A. D. 1892.

IN PRESENCE OF

J. Nelson
L P Sheers }
Hyer A Conklin
Susan A Conklin

The State of Nebraska, } ss.
 KNOX COUNTY. On this 23rd day of December A. D. 1892, before me, L P Sheers a Notary Public duly appointed and qualified for and residing in said County, personally came Hyer A Conklin and Susan A Conklin (husband and wife) to me known to be the identical persons described in and who executed the foregoing conveyance as grantors and acknowledged the said instrument to be their voluntary act and deed.

WITNESS my hand and Notarial seal the day and year last above written.



L P Sheers
 Notary Public

and the said Carrie F Gerner hereby relinquishes her right of dower in and to the above described premises

Signed the ninth day of January A.D. 1894

In Presence of

Louis W. Gerner
Carrie F. Gerner.

State of Iowa - Woodbury County - ss. -

On this ninth day of January A.D. 1894, before me P. G. Biedesel a Notary Public with in and for said Woodbury County, State of Iowa, personally came Louis W. Gerner and Carrie F. Gerner husband and wife personally to me known to be the identical persons whose names are affixed to the above instrument as grantors and severally acknowledged the execution of the same to be their voluntary act and deed for the purpose therein expressed. In witness whereof I have hereunto subscribed my name and affixed my seal at Ottowa Iowa on the date last above written.

P. G. Biedesel

Notary Public

Louis W. Gerner + wife

To

G. Gerner

Sept 21-1894-9. A.M.

Know all men by these presents that Louis W. Gerner and Carrie F Gerner husband and wife of Woodbury County, and

State of Iowa in consideration of the sum of two thousand and ^{no}/₁₀₀ Dollars in hand paid by G. Gerner of Cook County and State of Illinois do hereby sell and convey unto the said G. Gerner the following described premises situated in the County of Sioux and State of Nebraska, to wit: The South East quarter (S.E. 1/4) in Section Six (6) in Township thirty one (31) North of Range Five (5) West of the sixth (6) P.M. containing One hundred sixty acres more or less according to the Government Survey. Grantor assumes and agrees to pay the Mortgage of two hundred dollars (\$200) on said premises. And we hereby covenant with the said G. Gerner that we hold said premises by good and perfect title that we have good right and lawful authority to sell and convey the same, that they are free and clear of all liens and incumbrances what so ever except the two hundred Dollars (\$200) Mortgage above described. And we covenant to warrant and defend the said premises against the lawful claims of all persons whomsoever except the above mortgage. And the said Carrie F. Gerner hereby relinquishes her right of dower in and to the above described premises.

Signed this ninth day of January A.D. 1894

S/206

In Presence of

Louis W. Gerner
Larrie F. Gerner

State of Iowa - Woodbury County - ss. -

On this ninth day of January A.D. 1894 - before me P. G. Riedesel a Notary Public within and for said Woodbury County, State of Iowa, personally came Louis W. Gerner and Larrie F. Gerner husband and wife personally to me known to be the identical persons whose names are affixed to the above instrument as grantors and severally acknowledged the execution of the same to be their voluntary act and deed for the purpose therein expressed.

In Witness whereof I have hereunto subscribed my name and affixed my seal at Ottowa - on the date last above written



P. G. Riedesel
Notary Public

Milton Wassberg

To
G. E. Lundgren

Sept 24 - 1894 - G. E. M.

Know all men by these presents: -
That Milton Wassberg Unmarried
of Linn County and State of Nebraska
in consideration of the sum of Three
Thousand five hundred and Twenty (\$3520) Dollars in
hand paid by G. E. Lundgren of Sioux County, and State of
Nebraska do here by sell and convey unto the said
G. E. Lundgren the following described premises situated
in the County of Sioux and State of Nebraska to wit: -
South West Quarter (S.W. 1/4) of Section eight (8) Township
Twenty nine (29) North Range Two (2) West of 8th P.M.
Subject to a certain mortgage of Seventeen hundred
(\$1700) Dollars, dated February 13th - 1892, bearing interest
at the rate of eight per cent per annum from date, which
grantee assumes and agrees to pay, also the Tax for the
year 1894. - with all the tenements, improvements
and appurtenances to the same belonging, and all the
estate, right, title, interest, claim or demand what so ever
of the said Milton Wassberg or in or to the same, or any
part thereof. To have and to hold the above described premises
with the appurtenances, unto the said G. E. Lundgren
and to his heirs and assigns forever And I hereby
covenant with the said G. E. Lundgren that I hold
said premises by good and perfect title, that I have

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my official seal at Coleridge Nebraska, on the day last above written.

Alla Smith
Notary Public.

Commission expires Dec. 23, 1906.

The state of Illinois, Rock Island County, ss:-----

On this 5th day of October A.D. 1901 before me George F. Roth a Notary Public duly commissioned and qualified for and residing in said County, personally came Elmore W. Hurst and Harriet M. Hurst, his wife, to me personally known to be the identical persons described in and who executed the foregoing conveyance as grantors, and acknowledged the said instrument to be their voluntary act and deed.

WITNESS my hand and notarial seal the day and year last above written.

George F. Roth
Notary Public.

Commission expires January 30th, 1903.

Gottlieb Gerner and wife) THIS INDENTURE, Made this Seventeenth day of October A.D
to) one thousand nine hundred and one between Gottlieb Gerner
Joseph K. Somer) Elizabeth Gerner, his wife of the city of Chicago County of
Filed Oct. 23, 1901, 2 P.M.) Cook and state of Illinois, party of the first part, and Joseph
K. Somer of Niobrara, Neb. County of Knox and state of

Nebraska, party of the second part, WITNESSETH: That said party of the first part in consideration of the sum of (\$650.00) Six hundred and fifty Dollars, to me in hand paid, the receipt whereof is hereby acknowledged, has granted, bargained, sold, conveyed and confirmed and by these presents does grant, bargain, sell, convey and confirm unto said party of the second part, and to his heirs and assigns forever, the following described real estate, to-wit: The South east quarter (S.E. 1/4) in Section Six (6) in Township thirty one (31) North of Range Five (5) West of the Sixth (6) P.M. Containing one hundred sixty acres more or less according to the government survey. There is no incumbrance on this property.

Situated in the ----of----in the county of Knox and in the state of Nebraska.

TO HAVE AND TO HOLD THE SAME, with the appurtenances, unto said party of the second part his heirs and assigns forever.

AND SAID PARTY OF THE FIRST PART, for his and her heirs, executors, and administrators, does covenant and agree, to and with said party of the second part, his heirs and assigns, that they well seized of the above described premises, as of a good and infeasible estate of inheritance in law, in fee simple, and that the same are clear of all liens, claims, and incumbrances whatsoever, and of all taxes and assessments for the present and past years, and they will forever warrant and defend the same.

And the said party of the first part hereby expressly waive and release any and all right, benefit, privilege, advantage and exemption, under or by virtue of any and all statutes of the state of Nebraska, providing for the exemption of homesteads from sale on execution or otherwise.

IN WITNESS WHEREOF, Said party of the first part has hereunto set their hands and seals on the day and year first above written.

Executed in presence of
P. Phillip.
Adin Thayer Lovell.

Gottlieb Gerner.
Elizabeth Gerner.

2 / 225

State of Illinois,)
 County of Cook,) ss: Before me, the undersigned, a Notary Public in and for said County,
 personally appeared Gottlieb Gerner and Elizabeth Gerner, his wife
 who are personally known to me to be the identical persons des-

cribed in and who executed the foregoing deed as grantors and acknowledged said instrument to be their voluntary act and deed, for the uses and purposes therein set forth, including the release and waiver of the right of homestead.

GIVEN under my hand and notarial seal, this seventeenth day of October A.D. 1901.

William T. Irwin
 Notary Public.

E.B. Bills, Executor
 to
 Vera Heinly
 filed Oct. 23, 1901, 10 A.M.)

THIS INDENTURE, made this 12th day of August 1901, by and between
 E. B. Bills, Executor of the last will and testament of
 George Wetherholdt, deceased, party of the first part, and Vera
 Heinly, the residuary legatee and devisee of the last will
 and testament of said George Wetherholdt, deceased, party of
 the second part, WITNESSETH: That the said E.B. Bills, as such executor, does hereby sell,
 transfer and convey unto the said Vera Heinly, the following described real estate,
 situated in the County of Polk, in the State of Iowa, to-wit:

Lot ten (10) in Block fifteen (15), and Lot fifteen in Block Sixteen (16) and lots
 twenty (20) and twenty one (21) in Block thirty one (31) in the West End addition to
 the City of Des Moines; and the following described real estate situated in the County of
 Wayne, in the State of Nebraska, to-wit: -the south half of Section seventeen (17), and
 the south east quarter of Section eighteen (18) all in Township twenty five (25) Range
 five (5) West; and the following described real estate, situated in Cedar County, in the
 State of Nebraska, to-wit: The south east quarter of Section three (3) Township twenty
 nine (29) Range one (1) West; and the following described real estate, situated in the
 County of Knox, State of Nebraska, to-wit: The south east quarter of Section twelve
 (12) Township thirty (30) Range seven (7) West, and the north west quarter of Section
 twenty five (25) Township thirty (30) Range three (3) West.

It being the intention of the said first party to convey unto the said Vera Heinly
 all right, title and interest which the first party may have in and to the aforesaid
 real estate, as executor of the last will and testament of said George Wetherholdt
 deceased, and otherwise, for the purpose of perfecting the title of said Vera Heinly
 in and to said real estate as legatee and devisee of the last will and testament of
 said George Wetherholdt, deceased.

IN WITNESS WHEREOF, the first party has hereunto set his hand and seal,
 the day and year first above written.

E.B. Bills (SEAL)
 Executor of the last will and testament
 of Geo. Wetherholdt, decd.

State of Iowa,)
 Muscatine County) ss: Be it remembered that on this 12th day of August 1901 before the
 undersigned, a Notary Public, within and for said County, personally
 appeared E.B. Bills, executor of the last will and testament
 of George Wetherholdt, deceased, to me personally known to be the identical person
 whose name is affixed to the foregoing deed as grantor, and who acknowledged the execu-
 tion of the said instrument to be his voluntary act and deed and that he executed
 the same for the purposes therein mentioned.

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FROM
Joseph K. Somer & wife
TO
Joseph Somer, Jr.,

STATE OF NEBRASKA }
County of Knox } Entered in Numerical Index and filed for record in the office of
1957 at 9 o'clock and - minutes A. M., and recorded in Book 83 page 166 of Deeds.
Edw. J. Lenger County Clerk,
Register of Deeds,
Deputy.
By

KNOW ALL MEN BY THESE PRESENTS: That We, Joseph K. Somer and Anna M. Somer, husband and wife,

of the County of Knox and State of Nebraska for and in consideration of the sum of One (\$1.00) and no/100 - - - - - DOLLARS, and love and affection, in hand paid do hereby grant, bargain, sell, convey and confirm unto Joseph Somer, Jr.,

of the County of Knox and State of Nebraska the following described real estate situated in - - - - - Knox County, and State of Nebraska, to-wit:

The South Half (S $\frac{1}{2}$) of Section Six (6) in Township Thirty One (31) North, Range Five (5) West of the Sixth Principal Meridian in said County and State.

We, the Grantors herein hereby reserve and this Warranty Deed is given on the condition that we do hereby retain a life estate or lease in said premises consisting of an annual payment of Four Hundred (\$400.00) and no/100 Dollars payable to either one or both of us on Sept 1, of each year following the date of this instrument so long as either one or both of us shall live.

Blue Border
100% ALUMINUM LIDGER

TO HAVE AND TO HOLD the premises above described, together with all the Tenements, Hereditaments and Appurtenances thereunto belonging unto the said Joseph. Somer Jr.,

And we do hereby covenant with the said Grantee and with his heirs and assigns, that we are lawfully seized of said premises; that they are free from encumbrance except as hereinbefore stated,

that we have good right and lawful authority to sell the same; and we do hereby covenant to warrant and defend the title to said premises against the lawful claims of all persons whomsoever.

And the said Anna M. Somer, hereby relinquishes all her right, title and interest of every kind and nature, except as hereinbefore stated, in and to the above described premises.

Signed this 12 day of September, A. D., 1953.

In Presence of
Garth N. Whatcott
F. R. Mares

Joseph K. Somer
Anna M. Somer

STATE OF NEBRASKA

KNOX County,) ss. On this 12 day of September, A. D., 1953, before me, the undersigned F. R. Mares, a Notary Public, duly commissioned and qualified for and residing in said County, personally came Joseph K. Somer and Anna M. Somer, husband and wife,

to me known to be the identical persons whose names are affixed to the foregoing instrument as grantors and acknowledged the same to be their voluntary act and deed.
WITNESS my hand and Notarial Seal the day and year last above written.

My commission expires the 1 day of June, 1955. F. R. Mares Notary Public.



FROM
 Millie Somer, widow
 TO
 Lawrence J. Somer

STATE OF NEBRASKA }
 KNOX COUNTY } ss. Entered in Numerical Index and filed for record in the office of
 Register of Deeds of said County, the 29 day of
 May, 19 67, at 2 o'clock and 30 minutes P.M.,
 and recorded in Book 89 of Deeds, page 42.
 Wm. N. Iseman, Jr. County Clerk—Register of Deeds.
 Deputy.

89
42

KNOW ALL MEN BY THESE PRESENTS:

THAT I or We, Millie Somer, an unmarried Widow,
 of the County of Knox, State of Nebraska, for and in consideration of the
 sum of One Dollar and other good and valuable consideration ----- DOLLARS
 in hand paid do hereby grant, bargain, sell, convey and confirm unto Lawrence J. Somer,

of the County of Yankton, State of South Dakota, the following described real estate
 situated in Knox County, State of Nebraska, to-wit:

My entire undivided one-half interest in and to:

The South Half (S½) of Section Six (6), in Township Thirty-one (31) North,
 of Range Five (5) West of the 6th P.M., in Knox County, Nebraska

Blue Border
100% LINEN JIBBER

TO HAVE AND TO HOLD the premises above described, together with all the Tenements, Hereditaments and appurtenances thereunto belonging, unto the said Lawrence J. Somer,

and to his heirs and assigns forever. And I or We hereby covenant with the said Grantee or grantees and with his, her or their heirs and assigns, that I am or We are lawfully seized of said premises; that they are free from encumbrance.

that I or We have good right and lawful authority to sell the same; and I or We hereby covenant to warrant and defend the title to said premises against the lawful claims of all persons whomsoever.

And the said Millie Somer hereby relinquishes all her right, title and interest in and to the above described premises.

Signed this 29th day of May, 1967.
 In Presence of
 C.J. Marshall
 Millie Somer
 Millie Somer

STATE OF NEBRASKA }
 KNOX County } ss. On this 29th day of May, 19 67, before me, the
 undersigned a Notary Public, duly commissioned and qualified for in said county, personally came

C. J. Marshall
 General Notary Seal
 Commission Expires
 Nov. 20, 1971
 State of Nebraska

Millie Somer, an unmarried Widow,
 to me known to be the identical person or persons whose name is or names are affixed to the foregoing instrument and
 acknowledged the execution thereof to be his, her or their voluntary act and deed.
 Witness my hand and Notarial Seal the day and year last above written.

My Commission expires the 20 day of Nov., 19 71. C.J. Marshall Notary Public.

120/319

WARRANTY DEED

Lawrence J. Somer & Naomi R. Somer
husband and wife....., Grantor, whether one or more,

in consideration of ..One hundred Twenty-One thousand Six hundred Eighty.....
dollars (\$121,680.00)-----, receipt of which is hereby acknowledged, conveys to
Richard D. McManigal & Geneva June McManigal
husband and wife, as equal tenants in common....., Grantee,

the following described real estate (as defined in Neb. Rev. Stat. § 76-201) in

Knox..... County, Nebraska:

N
S
E
W
R
H

South Half (S½) of Section Six (6) Township Thirty-One
(31), North (N) Range Five (5) West of the Sixth (6th)
P.M., Knox County, Nebraska

State of Nebraska, Knox County, ss. Filed for Record and Entered on Numerical Index this 6 day
November A.D. 1997 at 8 o'clock and 30 minutes A.M. and recorded in Book 180
Page 319 Deed Recc'd. Virginia Buerman, County Clerk and Ex-Officio
Register of Deeds, By Joann M. Fischer Recording Clerk. Fee \$ 5.50

NEBRASKA DOCUMENTARY
STAMP TAX
Date November 6, 1997
\$ 213.50 by JMF

Grantor covenants (jointly and severally, if more than one) with the Grantee that Grantor:

- (1) is lawfully seized of such real estate and that it is free from encumbrances
..... except those of record.....
- (2) has legal power and lawful authority to convey the same;
- (3) warrants and will defend the title to the real estate against the lawful claims of all persons.

Executed: March 1....., 1981..

Lawrence J. Somer
.....
Lawrence J. Somer

Naomi R. Somer
.....
Naomi R. Somer

State of Nebraska
County of ..Knox.....

The foregoing instrument was acknowledged before me on March 1, 1981
by ..Lawrence J. Somer and Naomi R. Somer, husband and wife.....

Melanie J. Greckel
.....
Notary Public Melanie J. Greckel

GENERAL NOTARY - State of Nebraska
MELANIE J. GRECKEL
My Comm. Exp. April 24, 1984

120/320

WARRANTY DEED

State of Nebraska, Knox County, ss. Filed for Record and Entered on Numerical Index this 6 day
 November A.D. 1997 at 8 o'clock and 30 minutes A M. and recorded in Book 120
 Page 320 Deed Record. Virginia Buerman, County Clerk and Ex-Officio
 Register of Deeds, By James M. Fusanelli Recording Clerk: Fee \$ 5.50

N ✓
 F ✓
 R ✓
 C ✓
 N ✓

NEBRASKA DOCUMENTARY
 STAMP TAX
 Date November 6, 1997
 \$ 232.75 By JMF

Richard D. McManigal and Geneva J. McManigal, Grantor, whether one or more,
 Husband and Wife
 in consideration of One Dollar and other valuable considerations

, receipt of which is hereby acknowledged, conveys to
 Ponca Tribe of Nebraska, Grantee,

the following described real estate (as defined in Neb. Rev. Stat. 76-201) in
 Knox, County, Nebraska:

The South Half of Section Six, Township 31, North, Range Five West of the
 Sixth P.M., Knox County, Nebraska

Grantor covenants (jointly and severally, if more than one) with the Grantee that Grantor:

- (1) is lawfully seised of such real estate and that it is free from encumbrances subject to easements, reservations, covenants and restrictions of record
- (2) has legal power and lawful authority to convey the same;
- (3) warrants and will defend the title to the real estate against the lawful claims of all persons.

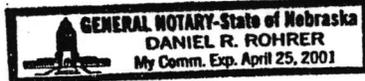
Executed: October 12, 1997

Richard D. McManigal
Geneva J. McManigal

State of Nebraska
 County of Knox

The foregoing instrument was acknowledged before me on October 12, 1997
 by Richard D. McManigal and Geneva J. McManigal
Daniel R. Rohrer, Daniel R. Rohrer

STATE OF NEBRASKA
 County of



Filed for record and entered in Numerical Index on
 at o'clock M., and recorded in Book , Page

By:
 County or Deputy County Clerk
 Register of Deeds or Deputy Register of Deeds

138
812

State of Nebraska, Knox County, ss. Filed for Record and Entered on Numerical Index this 2 day
~~September~~ A.D. 2015 at 1 o'clock and 30 minutes P. M. and recorded in Book 138
page 812-813 Deed Record. Joann M. Fischer, County Clerk and Ex-Officio
Register of Deeds, By Sue Wiebelhaus Recording Clerk. Fee \$ 16.00

NEBRASKA DOCUMENTARY
STAMP TAX
Date September 2, 2015
\$-Exempt By SW
52-3(2)

Prepared By:
Bureau of Indian Affairs
29775 South Main, PO Box 577
Wagner, SD 57380
(605) 384-3651

WARRANTY DEED

Ponca Tribe of Nebraska, 381T381030, grantor, of Knox County, State of Nebraska; whose post office address is Post Office Box 288, Niobrara, Nebraska, 68760, for other good and valuable consideration, grants, warrants, coveys, and transfers to the United States of America in Trust for Ponca Tribe of Nebraska, 381T381030, grantee, whose address is Post Office Box 288, Niobrara, Nebraska, 68760, the following described real estate in the County of Knox, in the State of Nebraska.

S $\frac{1}{2}$ of Section 6; NW $\frac{1}{4}$ of Section 7, all in Township 31 North, Range 5 West, Sixth Principal Meridian, Knox County, Nebraska, containing 464.97 acres, more or less.

Better described as:

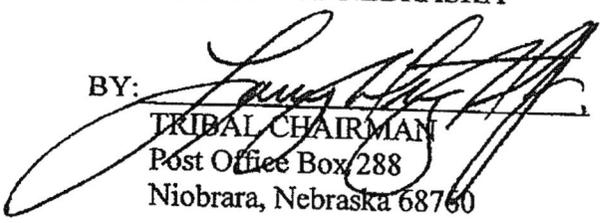
Lots 6 and 7, E $\frac{1}{2}$ SW $\frac{1}{4}$ and SE $\frac{1}{4}$ in Section 6; Lots 1 & 2, E $\frac{1}{2}$ NW $\frac{1}{4}$ in Section 7; all in Township 31 North, Range 5 West, Sixth Principal Meridian, Knox County, Nebraska, containing 464.97 acres, more or less.

This conveyance is subject to all valid existing leases, rights-of-way, permits and reservations in patents or deeds through which grantor acquired title.

This conveyance is made in accordance with the provisions of the Act of June 18, 1934 (48 Stat. 984), also known as the Indian Reorganization Act.

Dated this 26th day of AUGUST, 2015.

PONCA TRIBE OF NEBRASKA

BY: 
TRIBAL CHAIRMAN
Post Office Box 288
Niobrara, Nebraska 68760

APPENDIX F-2

HISTORICAL SANBORN MAP SEARCH



East Penn Property
528 Ave and 887 Road
Center, NE 68724

Inquiry Number: 4763055.3

October 25, 2016

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/25/16

Site Name:

East Penn Property
528 Ave and 887 Road
Center, NE 68724
EDR Inquiry # 4763055.3

Client Name:

Tetra Tech EMI
415 Oak Street
Kansas City, MO 64106
Contact: Kaitlyn Bahr



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech EMI were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 9237-453E-BFCB
PO # X9025140002.019.024
Project Ponca & East Penn Property



Sanborn® Library search results

Certification #: 9237-453E-BFCB

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Tetra Tech EMI (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

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APPENDIX F-3
HISTORICAL AERIAL PHOTOGRAPHS



East Penn Property
528 Ave and 887 Road
Center, NE 68724

Inquiry Number: 4763055.9

October 26, 2016

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Site Name:

East Penn Property
 528 Ave and 887 Road
 Center, NE 68724
 EDR Inquiry # 4763055.9

Client Name:

Tetra Tech EMI
 415 Oak Street
 Kansas City, MO 64106
 Contact: Kaitlyn Bahr



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2007	1"=500'	Flight Year: 2007	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1999	1"=500'	Acquisition Date: March 31, 1999	USGS/DOQQ
1988	1"=750'	Flight Date: June 08, 1988	USGS
1973	1"=500'	Flight Date: April 22, 1973	USGS
1946	1"=750'	Flight Date: June 09, 1946	USGS

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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INQUIRY #: 4763055.9

YEAR: 2012

— = 500'





INQUIRY #: 4763055.9

YEAR: 2012

— = 500'



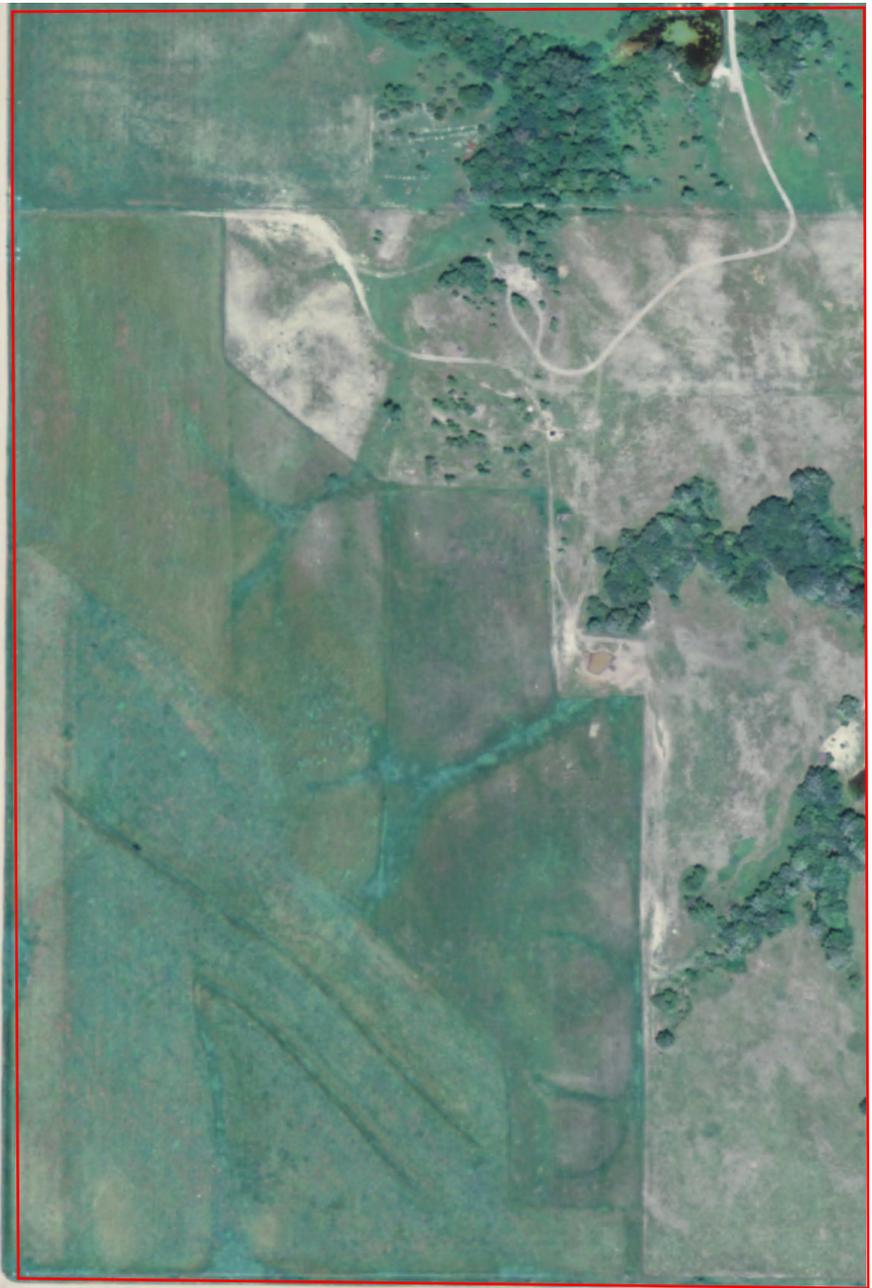


INQUIRY #: 4763055.9

YEAR: 2012

— = 500'





INQUIRY #: 4763055.9

YEAR: 2010

— = 500'



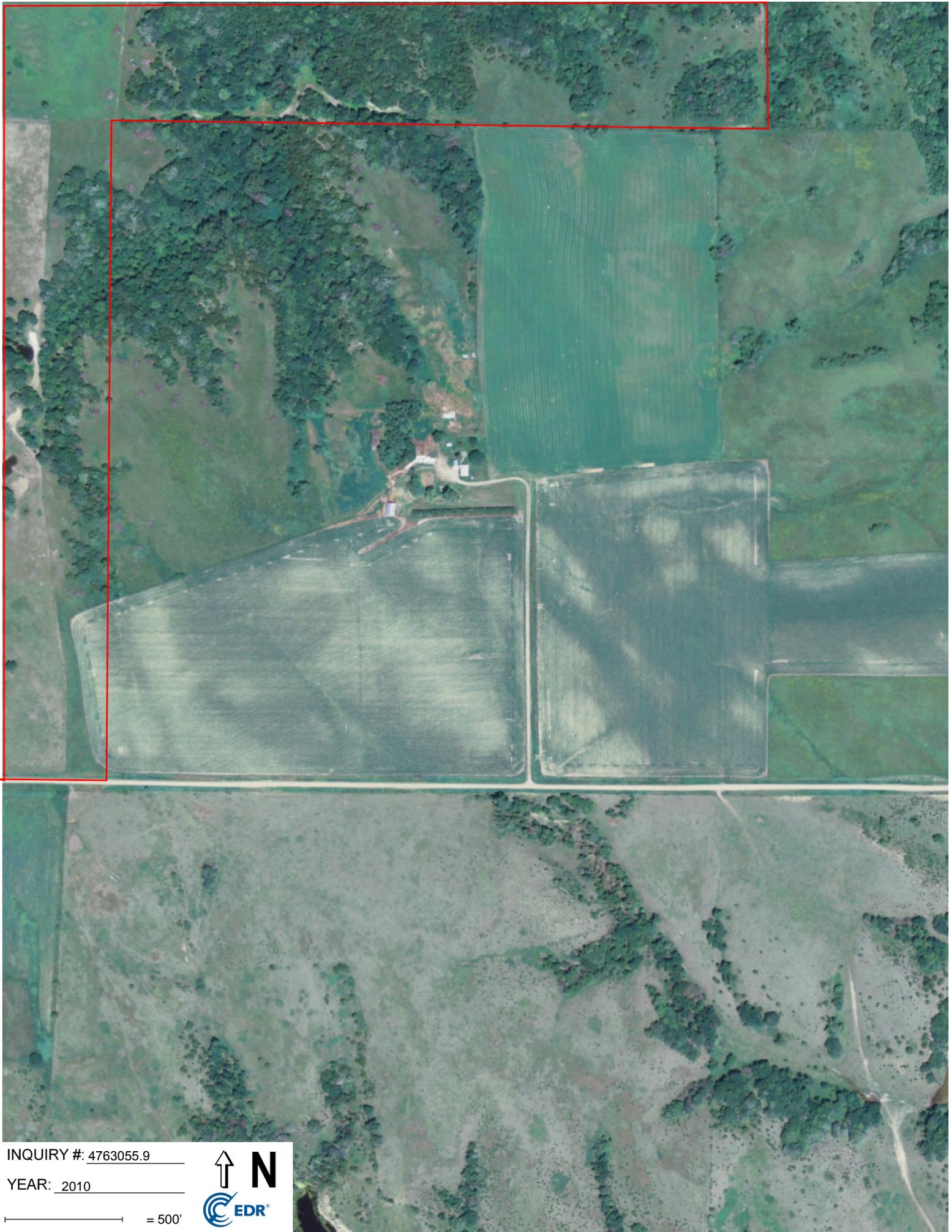


INQUIRY #: 4763055.9

YEAR: 2010

— = 500'





INQUIRY #: 4763055.9

YEAR: 2010

— = 500'



N

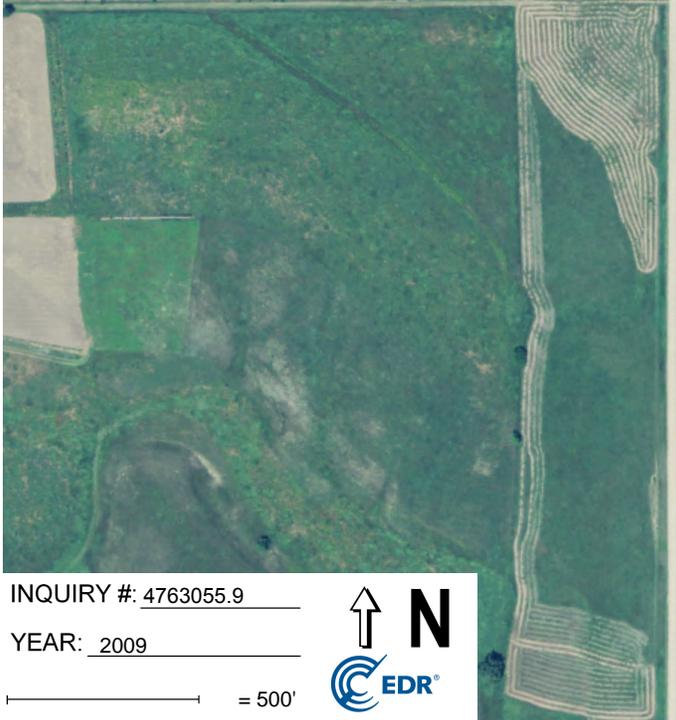


INQUIRY #: 4763055.9

YEAR: 2010

— = 500'





INQUIRY #: 4763055.9

YEAR: 2009

— = 500'





INQUIRY #: 4763055.9

YEAR: 2009

— = 500'



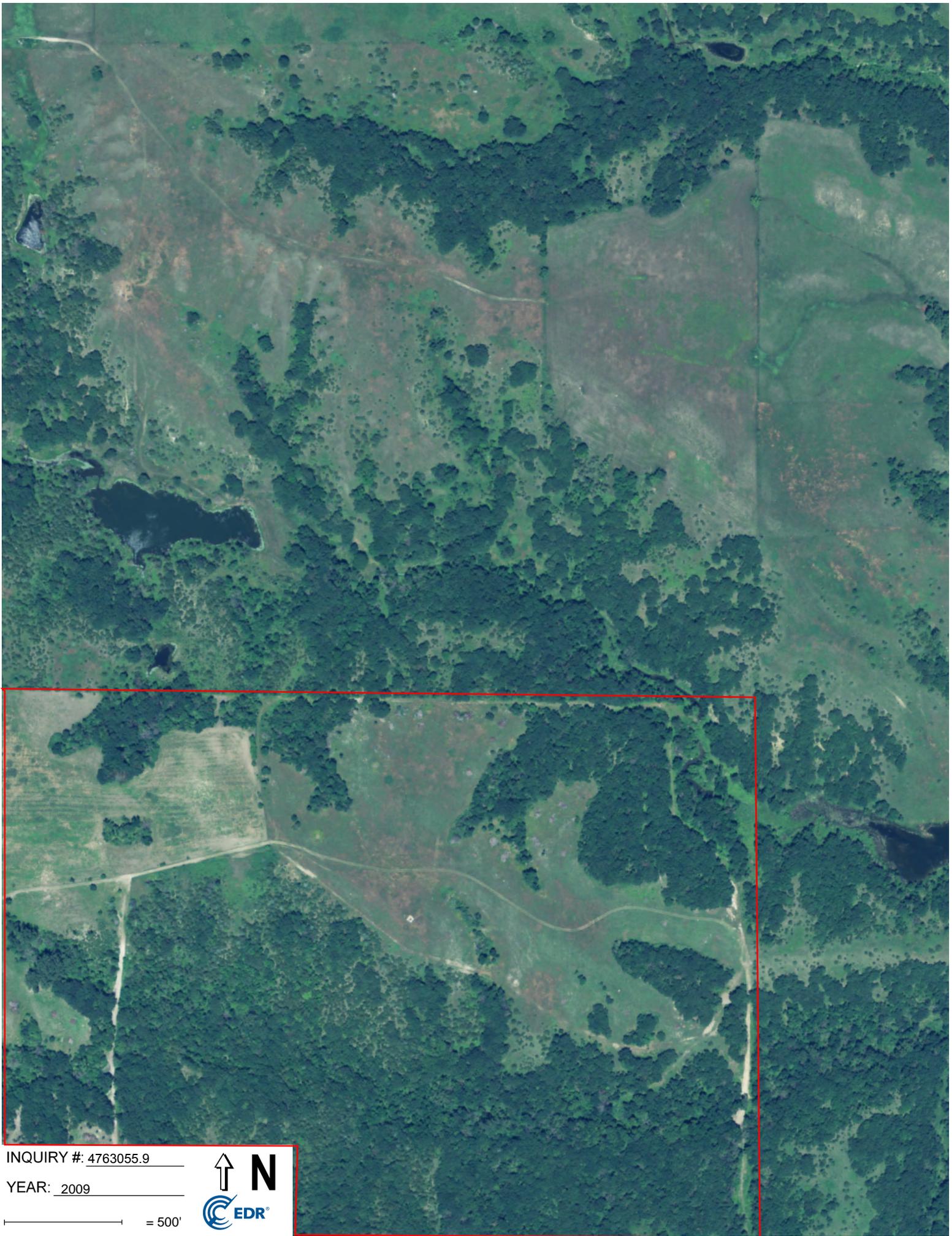


INQUIRY #: 4763055.9

YEAR: 2009

— = 500'





INQUIRY #: 4763055.9

YEAR: 2009

— = 500'





INQUIRY #: 4763055.9

YEAR: 2007

— = 500'





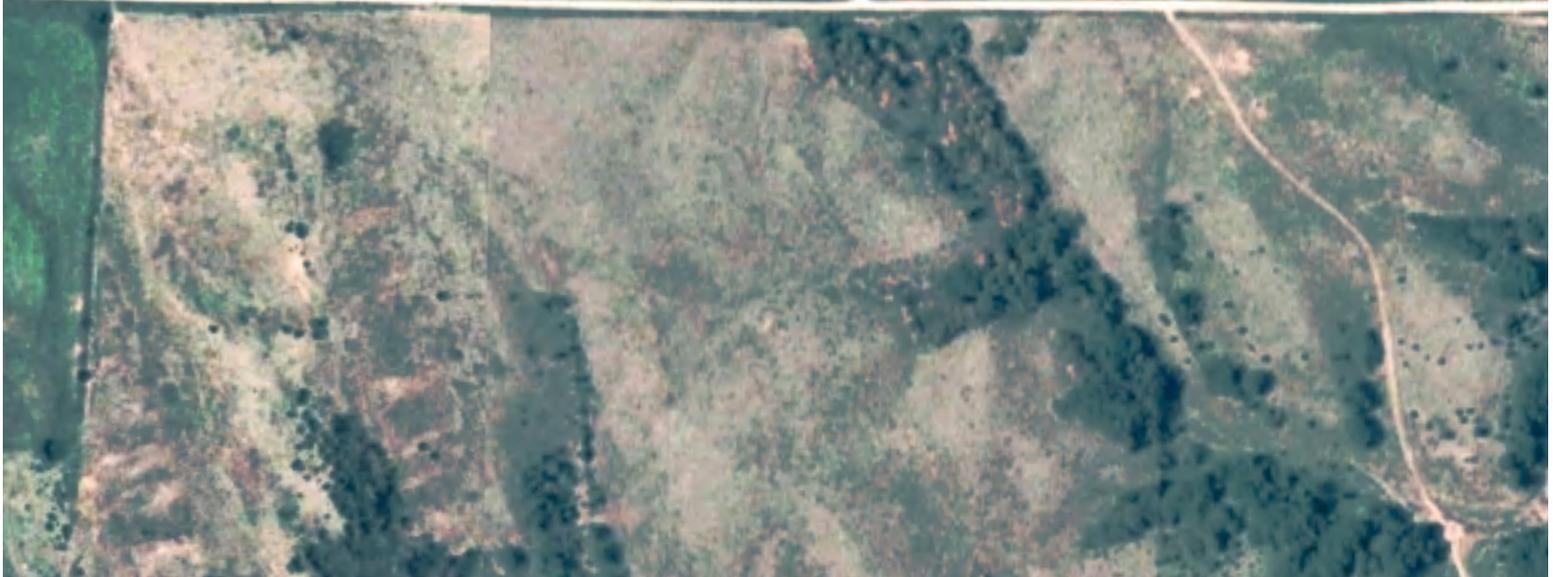
INQUIRY #: 4763055.9

YEAR: 2007

↑ N

EDR®

— = 500'

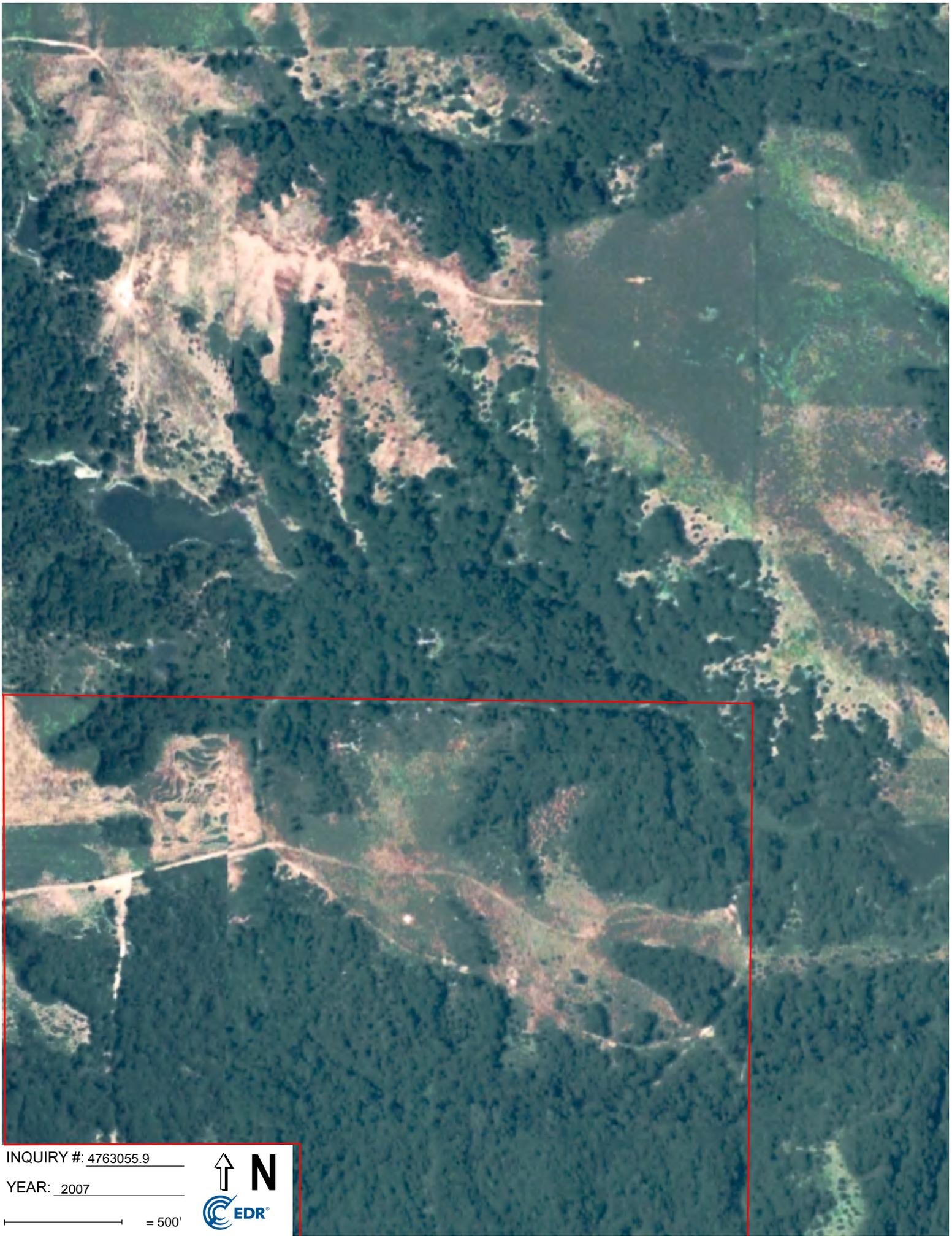


INQUIRY #: 4763055.9

YEAR: 2007

— = 500'





INQUIRY #: 4763055.9

YEAR: 2007

— = 500'



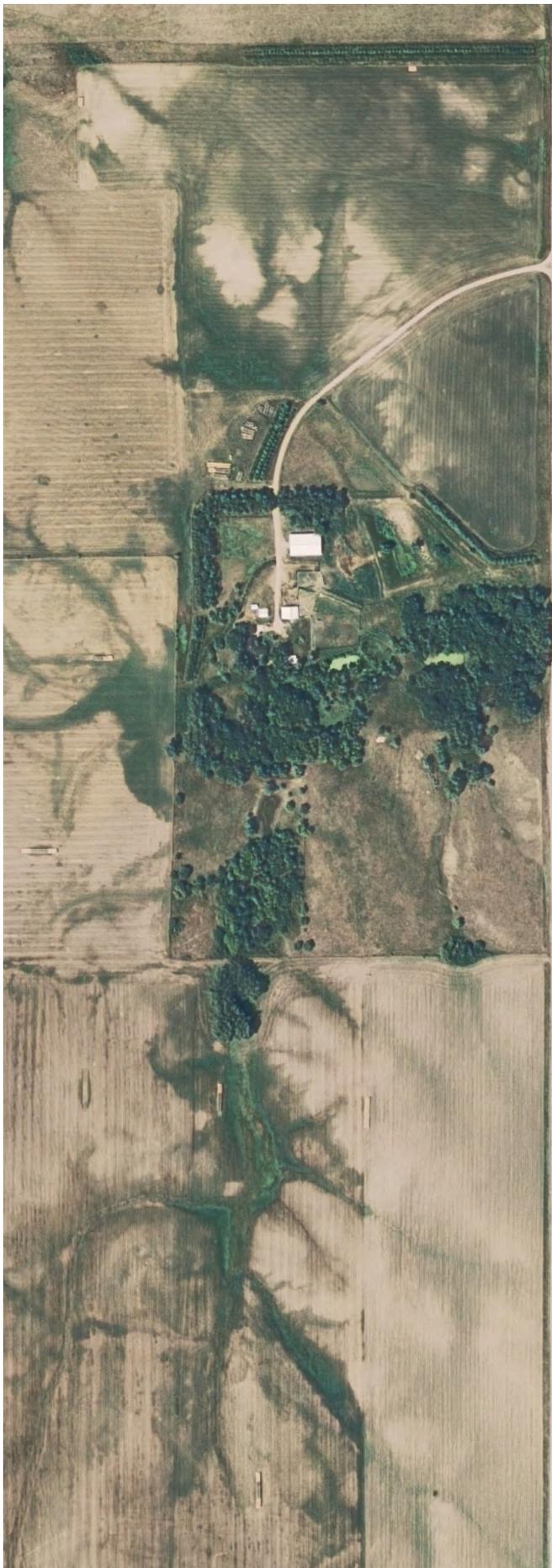


INQUIRY #: 4763055.9

YEAR: 2006

— = 500'





INQUIRY #: 4763055.9

YEAR: 2006

— = 500'



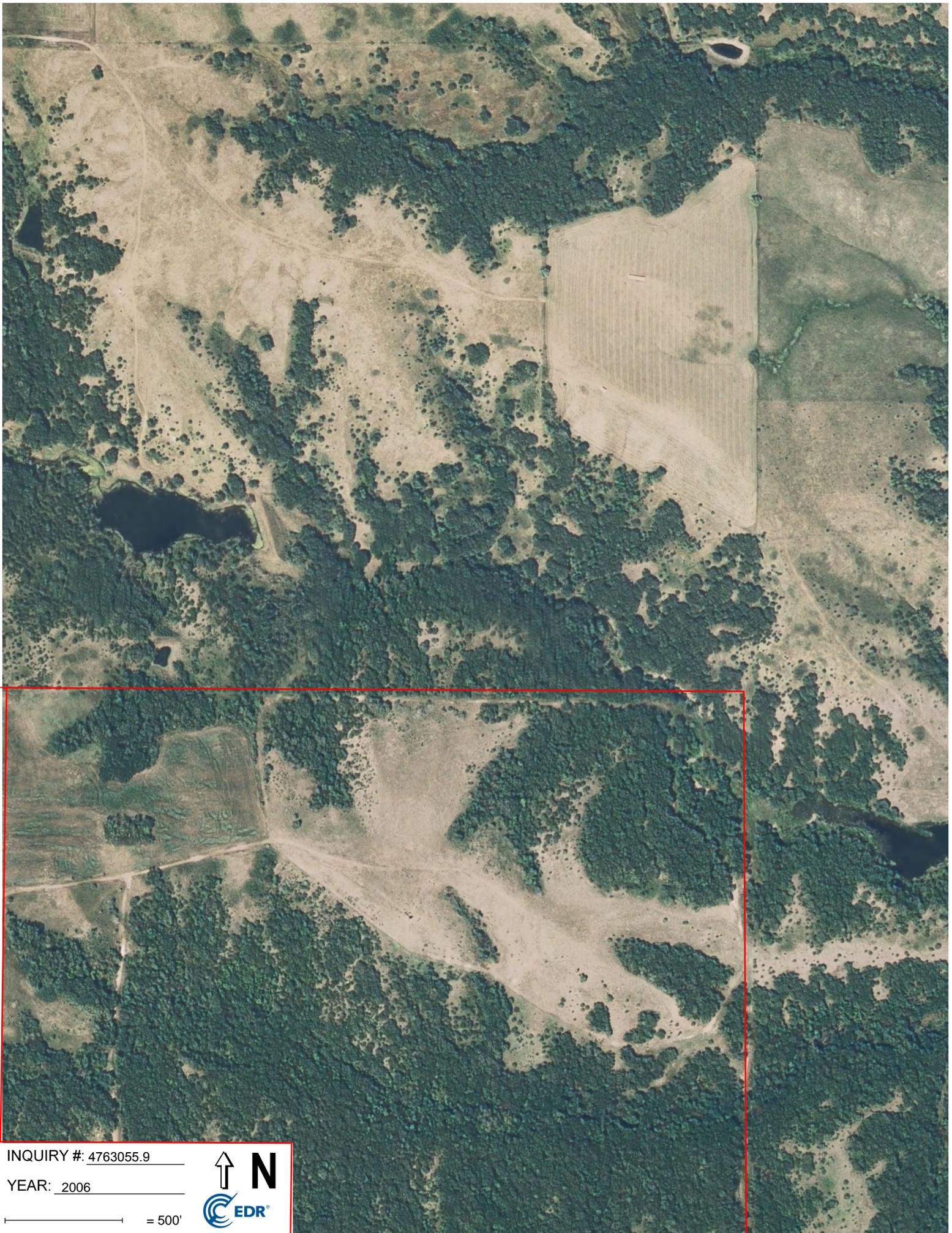


INQUIRY #: 4763055.9

YEAR: 2006

— = 500'





INQUIRY #: 4763055.9

YEAR: 2006

— = 500'





INQUIRY #: 4763055.9

YEAR: 2005

— = 500'





INQUIRY #: 4763055.9

YEAR: 2005

— = 500'





INQUIRY #: 4763055.9

YEAR: 2005

— = 500'





INQUIRY #: 4763055.9

YEAR: 2005

— = 500'





INQUIRY #: 4763055.9

YEAR: 1999

— = 500'





INQUIRY #: 4763055.9

YEAR: 1999

— = 500'



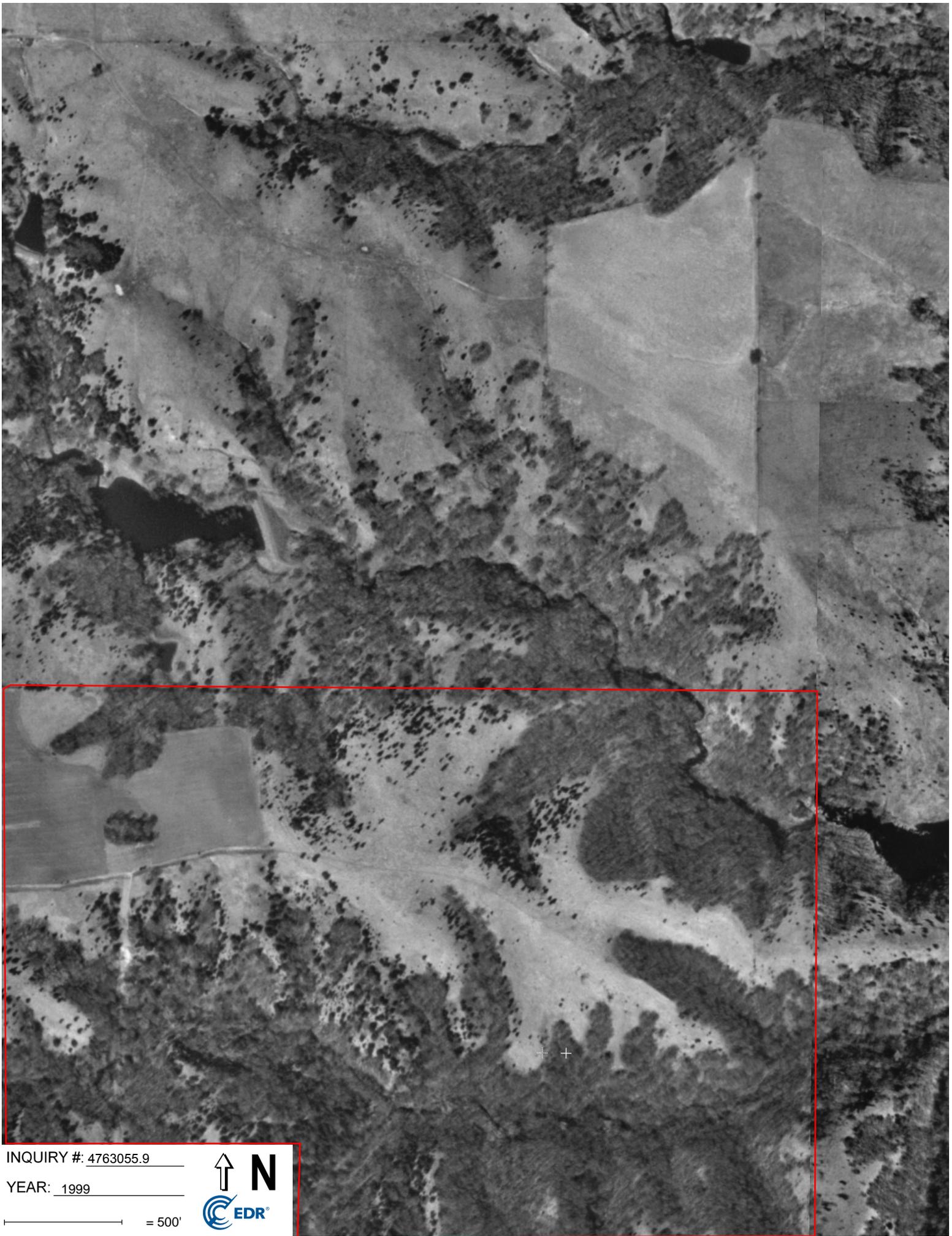


INQUIRY #: 4763055.9

YEAR: 1999

— = 500'





INQUIRY #: 4763055.9

YEAR: 1999

— = 500'



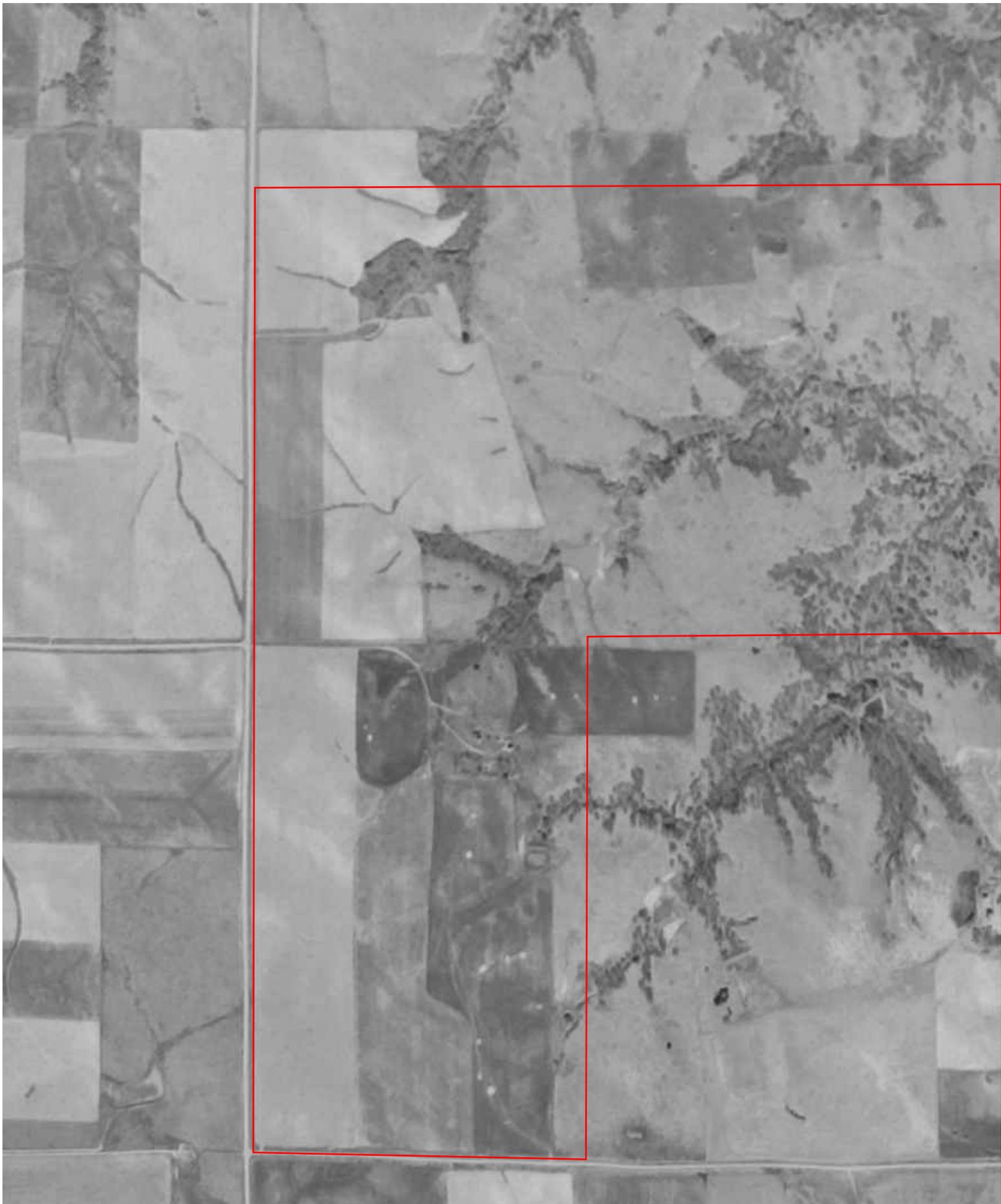


INQUIRY #: 4763055.9

YEAR: 1988

— = 750'



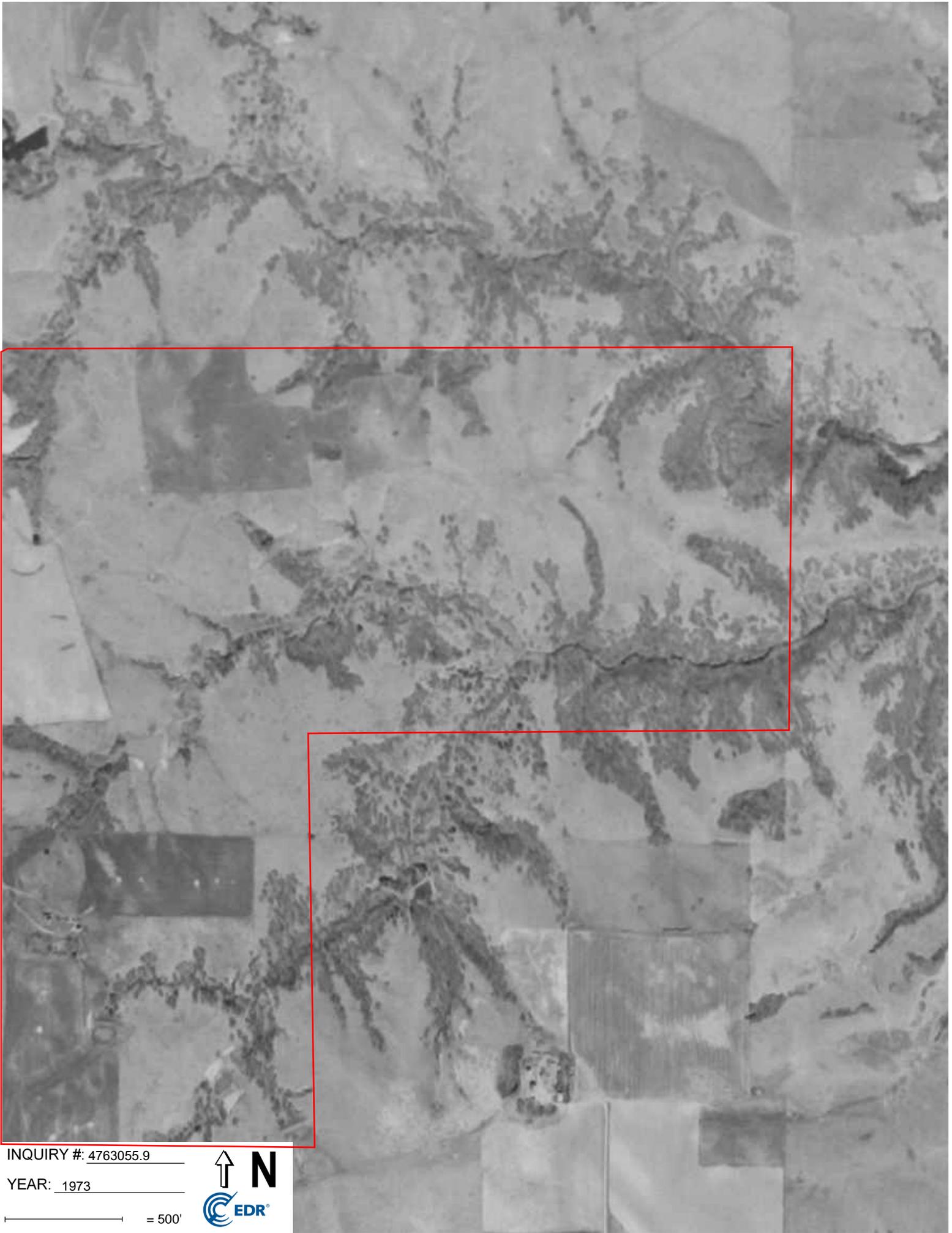


INQUIRY #: 4763055.9

YEAR: 1973

— = 500'



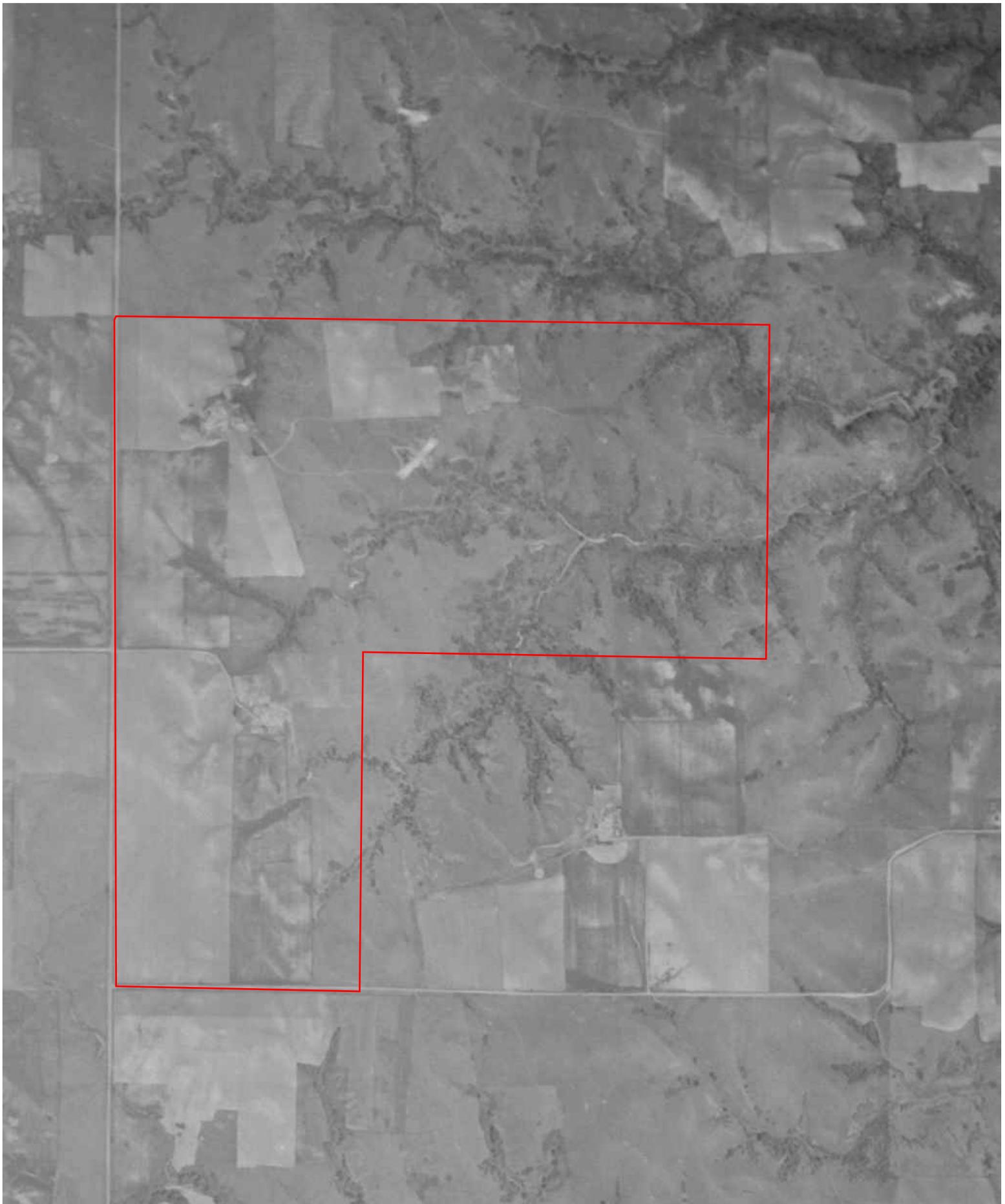


INQUIRY #: 4763055.9

YEAR: 1973

— = 500'





INQUIRY #: 4763055.9

YEAR: 1946

— = 750'



APPENDIX F-4

HISTORICAL TOPOGRAPHIC MAPS



East Penn Property
528 Ave and 887 Road
Center, NE 68724

Inquiry Number: 4763055.4

October 25, 2016

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

10/25/16

Site Name:

East Penn Property
528 Ave and 887 Road
Center, NE 68724
EDR Inquiry # 4763055.4

Client Name:

Tetra Tech EMI
415 Oak Street
Kansas City, MO 64106
Contact: Kaitlyn Bahr



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech EMI were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	X9025140002.019.024	Latitude:	42.687147 42° 41' 14" North
Project:	Ponca & East Penn Property	Longitude:	-97.945367 -97° 56' 43" West
		UTM Zone:	Zone 14 North
		UTM X Meters:	586396.64
		UTM Y Meters:	4726613.09
		Elevation:	1554.36' above sea level

Maps Provided:

2014
1974

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2014 Source Sheets

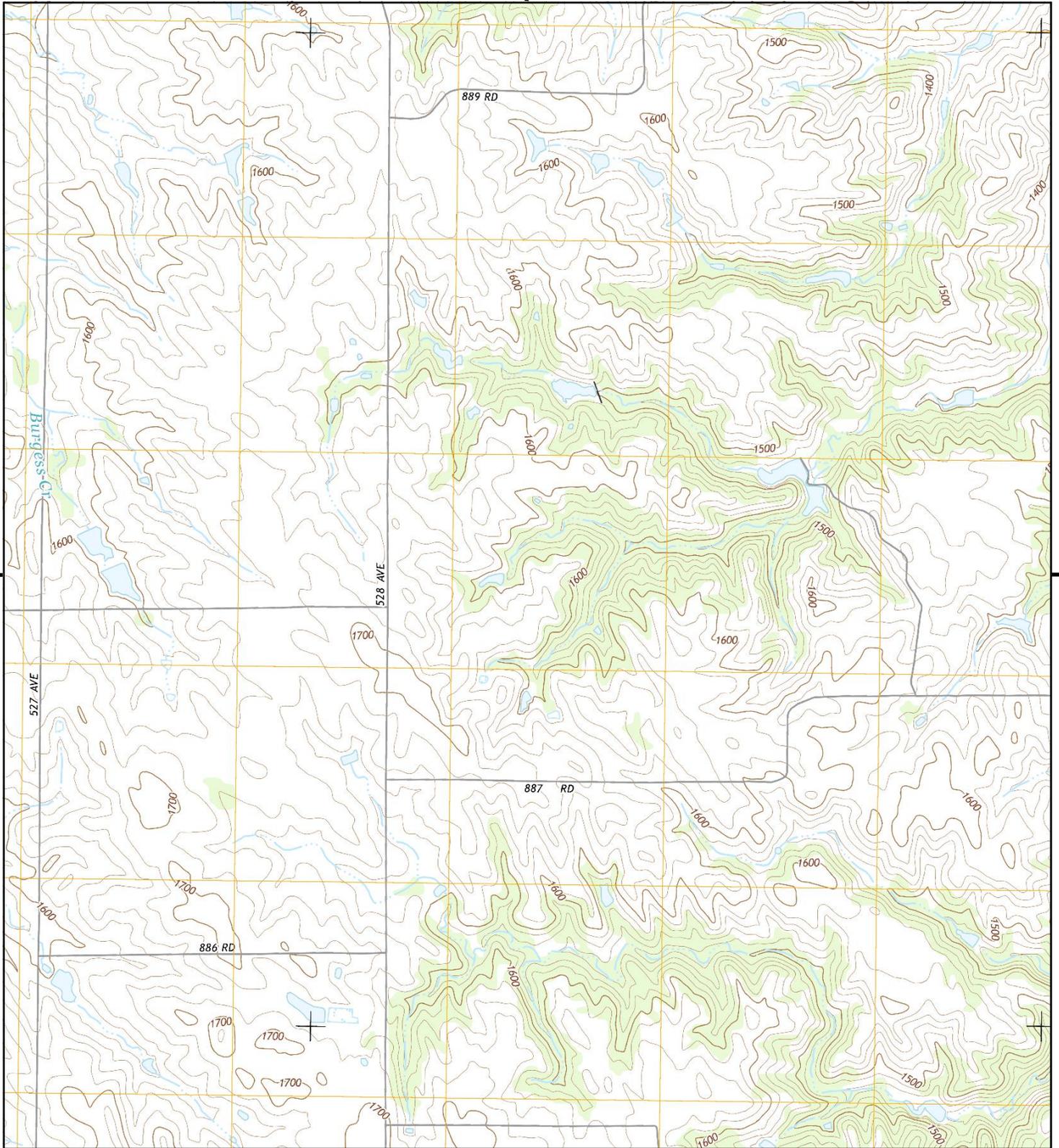


Sparta
2014
7.5-minute, 24000

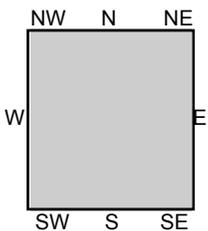
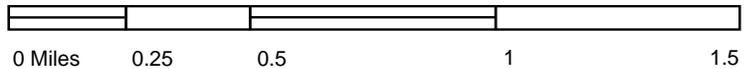
1974 Source Sheets



Sparta
1974
7.5-minute, 24000
Aerial Photo Revised 1973



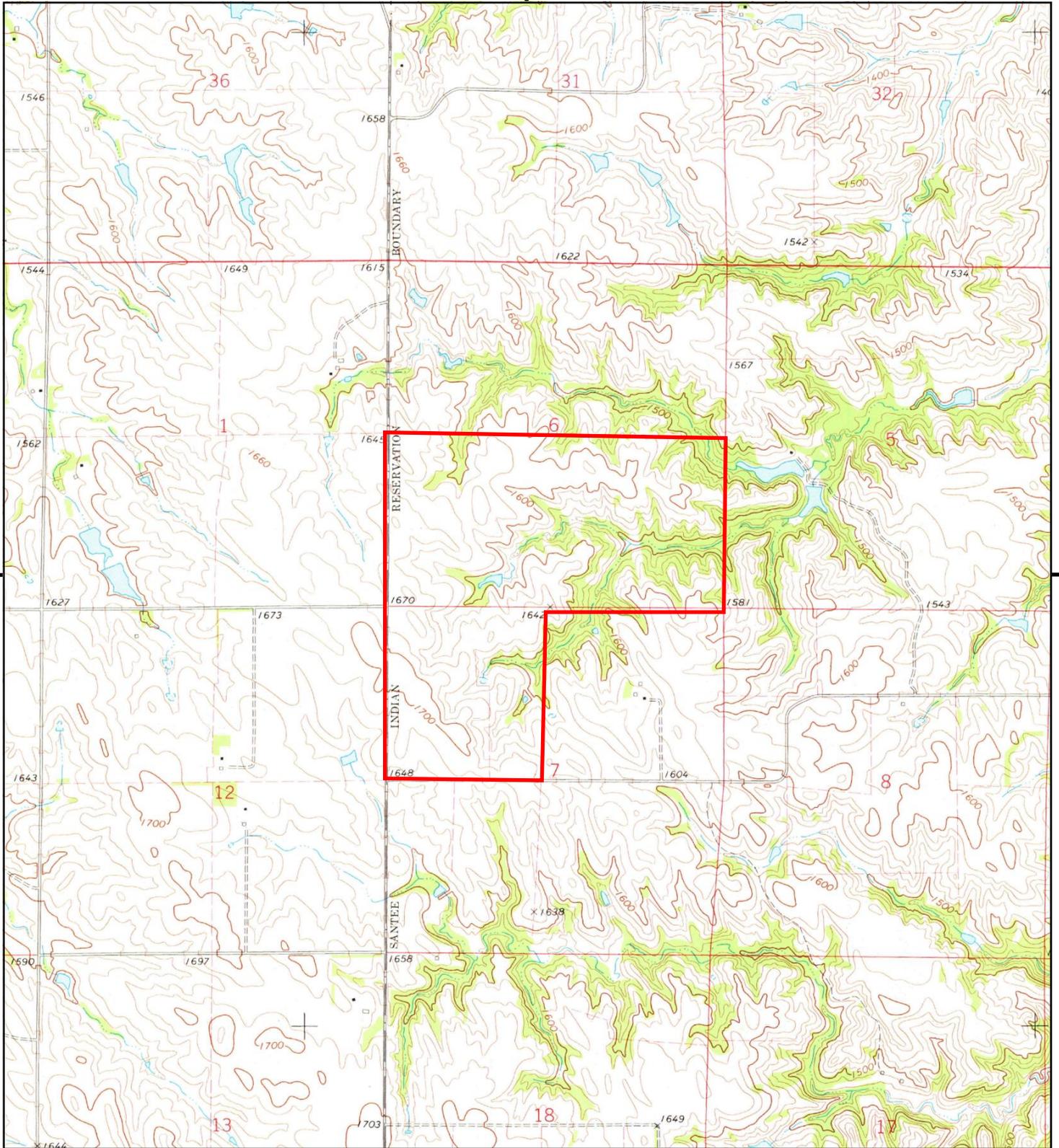
This report includes information from the following map sheet(s).



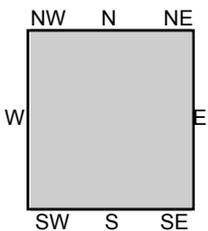
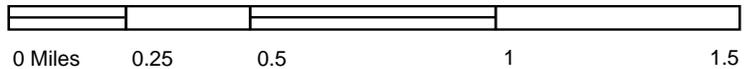
TP, Sparta, 2014, 7.5-minute

SITE NAME: East Penn Property
ADDRESS: 528 Ave and 887 Road
Center, NE 68724
CLIENT: Tetra Tech EMI





This report includes information from the following map sheet(s).



TP, Sparta, 1974, 7.5-minute

SITE NAME: East Penn Property
ADDRESS: 528 Ave and 887 Road
 Center, NE 68724
CLIENT: Tetra Tech EMI



APPENDIX F-5

HISTORICAL CITY DIRECTORY SEARCH

East Penn Property

528 Ave and 887 Road
Center, NE 68724

Inquiry Number: 4763055.5
October 26, 2016

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1993 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	-	-	-	-
2008	Cole Information Services	-	-	-	-
2003	Cole Information Services	-	-	-	-
1998	Cole Information Services	-	-	-	-
1993	Cole Information Services	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

528 Ave and 887 Road
Center, NE 68724

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Addresses Found

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

528 Ave and 887 Road

Address Not Identified in Research Source

2013, 2008, 2003, 1998, 1993

APPENDIX G

RESUMES

EXPERIENCE SUMMARY

Ms. Bahr is an Environmental Scientist with six years of experience providing technical support for clients in the government and private sectors. Major areas of expertise include Phase I ESAs; NEPA reporting; hazardous materials surveys including asbestos, lead, mold, and household hazardous waste; demolition and abatement contractor oversight. Project support in these areas includes task management; technical report preparation; environmental field sampling; quality control and quality assurance for environmental field work; compliance inspection/determination; scientific data collection and analysis; and client communication. Ms. Bahr has also worked extensively on creating proposals and cost estimates to finalize time critical submittals. She has participated in emergency response training for the EPA dealing with chemical, biological and radiological agents.

RELEVANT EXPERIENCE

Environmental Analysis and Permitting

Phase I Environmental Site Assessment, Verizon Wireless. Ms. Bahr has completed many Phase I ESAs, which included an on-site assessment followed by a detailed records review of the site. Environmental risk was identified followed by determination if further sampling was recommended.

Unified Government of Wyandotte County, Kansas City, Kansas

Ms. Bahr prepared multiple Phase I and Phase II ESA reports for targeted Brownfield assessments for hazardous and petroleum sites in Wyandotte County, Kansas City, Kansas. Ms. Bahr's responsibility for the Phase I ESAs included assessing potential RECs and writing reports providing conclusions regarding potential RECs and recommendations for further work. This project included interpretation of an EDR database report, historical aerials, historic topographic maps, and city directories.

Martin Marietta Materials, Phase I and Phase II Environmental Site Assessments for Multiple Sites in Colorado and Wyoming

Ms. Bahr prepared multiple Phase I ESA reports for Martin Marietta Materials in Colorado as part of a property acquisition. Ms. Bahr's responsibility for the Phase I ESAs included assessing potential RECs and providing conclusions regarding potential RECs and recommendations for further work.

Citadel Plaza Redevelopment Area Area-Wide Phase I Environmental Site Assessment of 156 Parcels, Kansas City, Missouri

Ms. Bahr performed an area-wide Phase I ESA on 156 parcels within the Citadel Plaza Redevelopment Area generally bounded by residential housing, wooded land and East 60th Street, the east side of Prospect Avenue to Bruce R. Watkins Highway, 63rd Street and Brooklyn Avenue in Kansas City, Jackson County, Missouri. Numerous RECs were identified associated with the subject property and surrounding properties including the following sources of contamination: area-wide asbestos contamination in soil, dry

EDUCATION

B.S., Environmental Science, University of Kansas, 2010

Minor, Geography, University of Kansas, 2010

AREAS OF EXPERTISE

Project Management

Phase I ESAs

Asbestos, Lead-Based Paint, Mold

NEPA Reporting

Environmental Sampling

KEY TRAINING/ CERTIFICATIONS

40-hour OSHA HAZWOPER with 8-hour Refreshers

CPR and Standard First Aid

AHERA Asbestos Inspector

Current Asbestos Inspector License for the State of Iowa, Missouri, and Nevada.

OFFICE

Kansas City, MO

YEARS OF EXPERIENCE

6

CONTACT

816-412-1742

kaitlyn.bahr@tetrattech.com

cleaners, gas stations, former filling stations, former printers, and auto repair/auto service stations either on the subject property or hydraulically upgradient. Phase II field activities were recommended to address the RECs found during the area-wide Phase I ESA.

Phase II Environmental Site Assessment, Nebraska Department of Environmental Quality, Omaha, NE.

Ms. Bahr conducted site assessment of soil, groundwater and building materials to determine the extent of contamination at an industrial plant in West Point and Lincoln, NE.

Phase II and III Environmental Site Assessment, EPA Region 7 START Contract. Ms. Bahr conducted site assessment of soil to determine the extent of lead contamination for areas in the state of Missouri where previous lead mining activities occurred. Samples were taken from residences throughout two counties.

Emergency Response Training, EPA Region 7 START Contract. Ms. Bahr has participated in level A emergency response training for the EPA Region 7 START Contract that included a variety of situations including radiation release and unknown biological hazard release scenarios.

National Environmental Policy Act (NEPA) Reports

Ms. Bahr has completed NEPA reports in conjunction with a private telecommunication company's environmental site assessments (ESAs). The scope of work for the NEPA report includes NEPA Categorical Exclusion checklists, consultation with state and local agencies to evaluate the presence of threatened and endangered species, historically significant structures, sensitive areas, wetland delineations, biological evaluations, sacred Native American lands, and flood hazards on or near the subject properties. Because construction of cellular communication towers are federally regulated projects by the Federal Communications Commission (FCC), new cellular towers and certain collocations projects are subject to Section 106 consultation in accordance with the Advisory Council on Historic Preservation – 36 CFR 800 – and the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings. Ms. Bahr maintains contact with all individuals involved in the NEPA and Section 106 processes, including the client, archaeological and architectural historians, site acquisition consultants, engineers, state agencies including the United States Fish and Wildlife Service, state conservation agencies, SHPOs, tribal entities, and citizens identified through public involvement.

Enforcement and Compliance

American Recovery and Reinvestment Act (ARRA) Inspections, Mississippi, Ohio, New York, New Jersey, Pennsylvania, South Dakota, Missouri, Nebraska, Iowa and Kansas

Ms. Bahr conducted ARRA inspections across the United States in 2010 and 2011. The inspections were conducted at sites who had obtained ARRA funding for projects such as wastewater and water treatment plant upgrades, well installations, storage, water line installation, pump stations, construction projects, etc. The purpose of the inspections were to ensure the recipients were in compliance with all ARRA requirements including Davis-Bacon, Buy America, Jobs Reporting, Green Project Reserve, and Poster/logo requirements. A memo was generated after each inspection to summarize the findings.

On-site Compliance at Ford Motor Company Kansas City Assembly Plant and Stamping Plant, Claycomo, Missouri, 2013

Ms. Bahr provided environmental support during a large-scale remediation project at the former Ford Paint Kitchen. Tasks included conducting oversight of excavation activities, performing field screenings, and preparing and dispensing load tickets for proper hazardous material disposal.

Hazardous Materials Surveys

Environmental Assessment Services, Flood Damaged Homes – Cedar Rapids, Iowa. Ms. Bahr is licensed in the state of Iowa as an asbestos inspector. Ms. Bahr completed asbestos surveys, mold identification and household hazardous waste identification on approximately 1,000 flood damaged homes in the Cedar Rapids, Iowa area. Ms. Bahr is responsible for the following tasks: hazardous materials survey report preparation and

upload to a Share Point website; close-out post remediation report preparation, organization and filling of all field sheets, lab results, and sample chain of custodies; conducted sample result interpretation; and finally development of all files and field sheets needed for the oversight of the remediation of the hazardous materials in the homes prior to their demolition.

Environmental Assessment Services, AMC Entertainment Inc.

Ms. Bahr has conducted asbestos inspections at AMC movie theaters throughout the United States. Tasks included conducting a non-destructive asbestos inspection, gathering photographic evidence, and compiling a report based on the laboratory results.

Former Missouri State Prison, Targeted Brownfields Assessment – Jefferson City, Missouri. Ms. Bahr is licensed in the state of Missouri as an asbestos inspector. Ms. Bahr was a part of a project team that completed a full hazardous materials inspection on the approximately 745,000 square foot 40 building complex. The inspection started with a Phase I ESA, followed by a full asbestos, lead based paint and mold inspection. Potentially PCB containing caulking was sampled along with an inventory and categorization of all household hazardous waste in the buildings was completed. She also helped with the final deliverables preparation required for the contract.

Rockhill Greens Redevelopment, Targeted Brownfields Assessment – Kansas City, Missouri. Ms. Bahr is licensed in the state of Missouri as an asbestos inspector. Ms. Bahr was a part of a project team that completed a full hazardous materials survey on the approximately 100,000 square foot 7 building complex. The inspection started with a Phase I ESA, followed by a full asbestos, lead based paint and mold inspection. Potentially PCB containing caulking was sampled along with an inventory and categorization of all household hazardous waste in the buildings was completed. She also helped with the final deliverables preparation required for the contract.

Horace Mann School, Missouri Voluntary Cleanup Program – Kansas City, Missouri. Ms. Bahr is licensed in the state of Missouri as an asbestos inspector. She acted as an asbestos inspector and Missouri Air Sampling Technician for the contract. Ms. Bahr assisted in developing an Analysis to Brownfields Cleanup Alternatives (ABCA) to evaluate the remediation options (including costs) for the removal of the hazardous materials identified in the 3-Story 50,000 square foot building prior to the demolition activities. Ms. Bahr then assisted in developing a Remedial Action Plan (RAP) for the removal of the hazardous materials identified based on the preferred option listed in the ABCA. The ABCA and the RAP are the first steps in the process to complete the Missouri Brownfields Voluntary Cleanup Program (MBVCP), which is a Brownfields program in the State that provides funding for renovations projects. Ms. Bahr was part of the team that provided oversight, along with air monitoring and clearance sampling for the removal of the hazardous materials.

Indian Springs Mall Redevelopment, Targeted Brownfields Assessment – Kansas City, Kansas. Ms. Bahr is licensed in the state of Kansas as an asbestos inspector. He acted as an asbestos inspector for the contract. Ms. Bahr led a team that completed a full hazardous materials inspection on the 4 building complex, encompassing approximately 800,000 square foot. The inspection started with a Phase I and Phase II ESA, followed by a full asbestos, lead based paint and mold inspection. Potentially PCB containing caulking was sampled along with an inventory and categorization of all household hazardous waste in the buildings was completed. Ms. Bahr provided critical communication with the client.

KCMO Schools, Targeted Brownfields Assessment – Kansas City, Kansas

Ms. Bahr is licensed in the state of Missouri as an asbestos inspector. She acted as an asbestos inspector for the contract. Ms. Bahr led a team that completed a full hazardous materials inspection on four KCMO schools (Bryant, Blenheim, Graceland and 7 Oaks). The inspections started with a Phase I and Phase II ESA, followed by a full asbestos, lead based paint and mold inspection. Potentially PCB containing caulking was sampled along with an inventory and categorization of all household hazardous waste in the buildings was completed. Ms. Bahr provided critical communication with the client. She also wrote the final deliverables required for the contract.

Seven Oaks School Redevelopment Project – Kansas City, Missouri

Ms. Bahr is licensed in the state of Missouri as an asbestos inspector. She provided technical services for the contract. Ms. Bahr conducted Phase I ESA, Radon Testing and a Vapor Encroachment Screening for the 3-Story 40,000 square foot building in anticipation of renovations for senior housing at the site. Once this was complete, Ms. Bahr assisted in developing Bid Plans and Specifications for the remediation phases of the project, which included, asbestos, LBP and hazardous waste.

Environmental Assessment Services, City of Kansas City, MO, 63rd and Prospect Redevelopment Area, Kansas City, Missouri (2013-2014)

Ms. Bahr conducted asbestos inspections at over 100 former residential parcels in the 63rd and Prospect Redevelopment area. Tasks included obtaining soil samples, cataloguing household hazardous waste, and verifying parcel locations with a land survey. In addition, Ms. Bahr conducted DPT soil and groundwater sampling at several former commercial parcels.

Hazardous Materials Survey, Ford Motor Company Kansas City Assembly Plant and Stamping Plant, Claycomo, Missouri, 2013

Ms. Bahr was part of a team that conducted an asbestos inspection of 75% of the Ford Assembly Plant as well as the accessory and support buildings. Tasks included sampling plan development, sample collection and analysis, implementation of a material damage ranking, and field documentation. Ms. Bahr consolidated all the findings from the assessment into a report deliverable, which included sample results, interpretation, recommendations, and detailed figures. Ms. Bahr is currently on call for hazardous material sampling when the need arises for the client. Each year a re-inspection is performed at the plant to assess the damage of asbestos containing materials.

Hazardous Materials Survey – Hickam Air Force Base, Honolulu, Hawaii

Ms. Bahr assists the Program Manager, providing critical communication with the client in dealing with the lab results, billing issues and providing guidance in following all regulatory guidelines for the project. Ms. Bahr also directs field sampling teams collecting asbestos and lead based paint samples. She also currently writes and reviews the final deliverables required for the contract.

Stormwater Management**Stormwater Compliance Inspections, Kansas City Phase I, Phase II, and Lee's Summit Pipeline Replacement Project, Missouri Gas Energy, 2013-present**

Ms. Bahr is currently involved in assisting Missouri Gas Energy with maintaining compliance for erosion control along East 107th Street in Kansas City, Missouri. Tasks include checking silt fencing, silt socks, and other best management practices weekly and after rain events for integrity and compliance. Reports and photologs are generated after each inspection.

Stormwater Compliance Inspections, Ford Motor Company Kansas City Stamping Plant, Claycomo, Missouri, 2013-present

Ms. Bahr is currently involved in assisting Ford with maintaining compliance for erosion control and stormwater protection at Ford's Stamping Plant in Liberty, Missouri. Ms. Bahr inspects best management practices (BMP) in areas predisposed to erosion to determine if stormwater protection is adequate. An inspection report and photolog is generated after each inspection.

ADDITIONAL EXPERIENCE

MS Excel, MS Word, MS Outlook, MS PowerPoint, and ArcGIS

EMPLOYMENT HISTORY

2010 - Present Environmental Scientist, Tetra Tech, Kansas City, Missouri

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Heather K. Wood, RG, LEEP AP Project Manager

EXPERIENCE SUMMARY

Ms. Wood has a master’s degree in geology and more than 19 years of consulting experience, including 14 years as an environmental consultant and more than 5 years as an information-systems consultant to state agencies. She has technical expertise related to groundwater quality evaluation, RCRA corrective action, RCRA compliance, RCRA and Superfund site assessment, Superfund hazard ranking documentation, hazardous waste management, and guidance and training development. Ms. Wood’s experience as a consultant includes design and implementation of large systems, interviewing and training technical and non-technical personnel, and performing quality control reviews.

RELEVANT EXPERIENCE

EPA Experience

Compliance Evaluation Inspections of Hazardous Waste Facilities, Iowa, EPA Region 7. Under multiple awards of the REPA contract, Tetra Tech has assisted EPA Region 7 hazardous waste enforcement efforts across the state of Iowa. Currently manages the Iowa hazardous waste inspection task order on the REPA contract, worth more than \$1M. Oversees the work of as many as 10 inspectors to inspect as many as 100 facilities per year.

Generator, treatment, storage, and disposal facilities are inspected during unannounced site visits. Reviewed EPA files to prepare for site visit. Interviewed owners, operators, and facility representatives. Observed and documented facility operations, with a focus on waste management practices. Prepared reports of potential violations for EPA review. Collected samples for waste characterization analysis by EPA Region 7 laboratory.

Under multiple awards of the REPA contracts, Tetra Tech has assisted EPA Region 7 hazardous waste compliance assistance across the state of Iowa. High and junior high schools are inspected during announced site visits. Interviewed teachers, principals, and administrators. Observed and documented school operations, with a focus on laboratories and maintenance facilities. Provided school administrators with compliance assistance materials. Prepared reports of potential violations for EPA review.

RCRA Environmental Indicators Evaluation, EPA Region 7.

Environmental Indicators (EI) evaluations measure a RCRA corrective action facility’s near-term progress toward annual cleanup targets for getting current human exposures controlled (form CA725) and migration of contaminated groundwater under control to minimize risk (form CA750). Ms. Wood managed the EI task order on the previous REPA contract. Completed CA725s and CA750s for facilities in Kansas, Missouri, Nebraska, and Iowa. Oversaw the completion of evaluations of 86 EIs at 45 facilities across the region, including recommendations for steps to meet 19 EIs. Reviewed

EDUCATION

M.S., Geology, University of Kansas, 2001
B.A., History, Trinity University, 1991

AREAS OF EXPERTISE

Hazardous Waste Compliance
RCRA Corrective Action
Hazardous Waste Permitting
Site Assessment
Due Diligence

REGISTRATIONS/ AFFILIATIONS

RG, Missouri (#2007006640)
PG, Nebraska (#G-0414)
LEED AP
At Large Member, Boulder County Resource Conservation Advisory Board

KEY TRAINING/ CERTIFICATIONS

40-hour OSHA HAZWOPER with 8-hour Refreshers
CPR and Standard First Aid
HAZWOPER Supervisor
EPA Confidential Business Information Training
Project Management 2
NETI Inspector

OFFICE

Kansas City, Missouri

YEARS OF EXPERIENCE

14

CONTACT

816-412-1787

documentation to establish levels and kinds of contamination, analyzed intensity and types of human exposures, and evaluated available groundwater gradient information. In order to meet an EPA internal goal for EI evaluations, mobilized a dozen staff members to complete 27 reports for 17 facilities in a single 3-month span.

Cost Estimate Reviews, EPA Region 7. Under the REPA contract, Tetra Tech has assisted EPA Region 7 with hazardous waste permitting for closure, post-closure, and corrective action. Ms. Wood managed lowa cost estimate reviews for the previous REPA contract. As part of this assistance, Tetra Tech reviews the cost estimate for the financial assurance sections of closure, post-closure, and corrective action permit applications. Reviewed facilities' cost estimates and documented their assumptions. Used CostPro and RACER to create an independent cost estimate for each facility based on the facility's assumptions and documented any facility oversights. Compared the independent cost estimate to the facility estimate and reported any shortfalls.

Targeted Brownfields Assessments (TBA), EPA Region 7. Ms. Wood is a qualified environmental professional providing oversight and technical review of Phase I and II TBAs for EPA Region 7. Sites assessed under her review have included industrial, commercial, and multi-site subject properties.

Operations and Maintenance and Comprehensive Groundwater Monitoring Inspections, Iowa, EPA Region 7. Since the State of Iowa does not conduct inspections under the RCRA Program, Region 7 enters into a contract for the completion of RCRA Operation and Maintenance Inspections (OMI) and Comprehensive Groundwater Monitoring Evaluations (CME) in the State of Iowa. OMIs are conducted to determine the adequacy of the groundwater sampling, analysis, and well maintenance procedures employed at RCRA facilities after a land disposal facility has closed. CME inspections are conducted to ensure that groundwater monitoring systems are designed and function properly at RCRA land disposal facilities. CMEs include an assessment of site hydrogeological conditions and may include sampling and analysis of the facility's groundwater monitoring system. Managed the Iowa OMI and CME task order under the REPA contract, completing or supervision the completion of OMIs or CMEs at 10 Iowa facilities. Completed file review with the EPA project manager—reviewing and evaluating sampling and analysis plans, quality assurance project plans, the facility's operating record, and groundwater monitoring reports. After the document review, conducted a field evaluation of a facility's groundwater sampling event, documenting compliance with approved sampling procedures and the condition of the facility's monitoring wells and equipment. Prepared reports including an evaluation of groundwater gradients, recommendations and requirements for changes to the facility's groundwater monitoring plans and reports, and documentation of the facility's current groundwater conditions. CME reports also include aquifer cross sections and an evaluation of the adequacy of the facility's groundwater monitoring program.

Advanced Drainage Concepts/Green Solutions Project Support, Kansas City, Missouri, EPA Region 7. EPA's Office of Research and Development's (ORD) National Risk Management Research Laboratory is currently implementing a project to develop, implement and evaluate the use of advanced drainage concepts, particularly green infrastructure (GI) for combined sewer overflow control. As a component of the ORD study, the project team used the previous REPA contract vehicle to request the installation of various kinds of green infrastructure on commercial and residential properties in the same study area. Managed the implementation of advance drainage concepts, including installation of rain gardens and rain barrels and disconnection of downspouts. Conducted public outreach to community and volunteers.

RCRA Facility Investigation (RFI) Oversight, Des Moines, Iowa, EPA Region 7. The John Deere Des Moines Works manufacturing facility near Des Moines, Iowa, is the subject of ongoing RCRA corrective action. Developed work plans and cost estimates. Evaluated the facility's RFI work plan and provided comments for improving the document to EPA. Managed project and prepared monthly status reports.

Corrective Measures Oversight, Kansas City, Kansas, EPA Region 7. The Harcros, Inc., facility in Kansas City, Kansas, is the subject of ongoing RCRA corrective action. Evaluated the facility's RFI results and CMS plan. Provided comments for improving the document to EPA. Managed project and prepared monthly status reports. Ms. Wood also supported the preparation of the administrative record for the statement of basis as part of ongoing corrective measures at Harcros Chemicals, Inc., in Kansas City, Kansas. Assembled documents related

to the initial Administrative Order on Consent, evaluated their relevancy to the ongoing proceedings and any potential enforcement sensitivity, and summarized their contents.

RCRA Programmatic Quality Assurance Project Plan, EPA Region 7. The programmatic Quality Assurance Project Plan (QAPP) is a document that was prepared at the beginning of the current and previous REPA contracts. It is used as the basis for QAPPs prepared for REPA work assignments, both for full project-specific QAPPs or as a reference document for short form project-specific QAPPs or sampling and analysis plans. Reviewed QAPPs from previous REPA contracts, current START contracts, and other sources and EPA guidance documents. Consolidated QAPPs and wrote additional material addressing new, contract-specific requirements.

Nitrate Initiative Report, EPA Region 7. The National Nitrate Compliance Initiative was an effort by the EPA to increase voluntary compliance in reporting among manufacturers who discharged incidentally-manufactured nitrates to surface water and land receptors. Incidentally-manufactured nitrates are those created during acid-neutralization procedures, especially in metal finishing and dairy industries. To showcase the success of this effort, a report was created to show the substantial increase in reported nitrate amount. Implemented required revisions, coordinated changes with all EPA regions, and updated data tables.

RCRA Closure Sampling, Kansas City, Kansas, EPA Region 7. The EPA Region 7 Laboratory formerly operated with a RCRA treatment, storage, and disposal permit. When the laboratory was scheduled to be moved to a new building, EPA was required to determine the nature and extent of contamination of soils and structural surfaces by hazardous wastes generated by the on-site laboratory and by waste samples and materials collected and stored onsite as a result of a variety of Superfund activities. Collected soil and dust samples for a range of contaminant types. Recorded and labeled 700 samples over 3 days. Prepared reports documenting sampling.

Hazard Ranking, Kansas, EPA Region 7. A former smelting facility in Kansas was the subject of an ongoing hazard ranking assessment for inclusion on the National Priorities List. Collected and assessed a range of related documents, including previous EPA and Kansas Department of Health and Environment assessments, private evaluations sponsored by the facility, and discovery documents generated by potential responsible parties. Wrote descriptions of the nature and extent of contamination and quantified the number of targets and the intensity of their exposure. Calculated a preliminary hazard ranking score.

Hazard Ranking, Nebraska, EPA Region 7. A grain elevator in Nebraska was the subject of an ongoing hazard ranking assessment for inclusion on the National Priorities List. Collected and assessed a range of related documents, including previous EPA and Nebraska Department of Environmental Quality assessments, private evaluations sponsored by the facility, and discovery documents generated by potential responsible parties. Wrote descriptions of the nature and extent of contamination and quantified the number of targets and the intensity of their exposure. Calculated a preliminary hazard ranking score.

Community Involvement Plan, Iowa, EPA Region 7. Hills, Iowa, is the site of perchlorate contamination in groundwater. Traveled to Hills with EPA representatives to interview community members and community leaders regarding EPA's involvement in Hills. Prepared a summary of these interviews and developed a community involvement plan based on the interviews.

Groundwater Investigation, Iowa, EPA Region 7 Hills, Iowa, is the site of perchlorate contamination in groundwater. Collected groundwater samples from private wells, Geoprobe borings, and temporary wells for perchlorate, volatile organic, and trace metal analysis. Oversaw a pump test to determine hydraulic conductivity of two aquifers. Managed project sampling teams. Acted as health and safety officer for the 10 person sampling team.

Spill Prevention Control and Countermeasures Inspections, western Nebraska, EPA Region 7. The Spill Prevention Control and Countermeasures (SPCC) act regulates the activities of petroleum storage and production facilities, with the goal of preventing contamination of rivers and streams. Thirty-two facilities in western Nebraska were inspected by three teams over a week. Photographed and documented violations of SPCC regulations.

Interviewed facility owners and operators. Reviewed SPCC plans. Prepared reports and photographic logs documenting inspections.

Expanded Site Investigation, North Platte, Nebraska, EPA Region 7. This investigation sought to identify the source of dissolved PCE and TCE found in domestic supply wells in the city of North Platte, Nebraska. Several current and former dry cleaners and railroad facilities were identified as the potential sources for the dissolved solvents. Selected sampling locations within potential source zones, collected soil and groundwater samples with a Geoprobe crew, assisted Geoprobe operators, and documented field activities.

Oversight of Field Activities at Superfund Sites, Missouri, EPA Region 7. Herculaneum, Missouri, is the location of an ongoing removal action related to contamination attributed to the Doe Run Lead Smelting facility. As part of the removal, Doe Run is removing contaminated exterior soil and contaminated interior dust from residential properties in the town. Ava, Missouri, is the location of the 12th Avenue Solvent site. Soils at this site have been contaminated with xylene and ethylbenzene. Oversaw and maintained a log of all excavation and cleanup activities. Collected confirmation samples of soil and house dust to verify clean-up levels. Collected samples of road dust to evaluate potential contamination from ore shipments. Obtained access agreements from residents.

Preliminary Assessments, Kansas and Nebraska, EPA Region 7. Preliminary assessments are the first step of CERCLA review. Reviewed the environmental history of a decommissioned Atlas missile silo in central Kansas and of a meat packing facility in northeastern Nebraska. Reviewed files available from the EPA regional office. Searched databases maintained by EPA, state geological surveys, the U.S. Census, and other state and federal government agencies. Interviewed officials from state and federal agencies. Assembled information describing potential contaminated media at the facility and possible contamination targets. Used EPA software to calculate a preliminary hazard ranking score.

Archive Site File Review, Kansas, Missouri, and Nebraska, EPA Region 7. Archive site file reviews are performed for sites that have come under the supervision of CERCLA, but for which no further action is expected. Reviewed EPA files for sites in Kansas, Missouri, and Nebraska. Prepared forms justifying the removal of the site from active CERCLA oversight.

Field Analytic Technologies Encyclopedia, Technology Innovation Office, EPA Headquarters. The Field Analytic Technologies Encyclopedia was developed to provide information about technologies that can be used in the field to characterize contaminated soil and ground water. It is part of the EPA's CLU-IN effort, under the direction of its Technology Innovation Office. Researched and wrote encyclopedia articles about direct push sampling of groundwater, soil, and soil gas and direct push geotechnical sensors, including those developed for rotary hammer and cone penetrometer platforms. Prepared articles for web-publication.

RCRA Corrective Action Training, Technology Innovation Office, EPA Headquarters. Under its contract with the Technology Innovation Office, Tetra Tech was asked to prepare internal training modules for topics related to RCRA Corrective Action, in particular the use of institutional controls. Researched guidance and reviewed training materials. Developed PowerPoint presentations and presenter notes for training sessions.

Revision of CostPro Cost Estimating Software, Technology Innovation Office, EPA Headquarters. Under its contract with the Technology Innovation Office, Tetra Tech was asked to prepare update the CostPro cost estimating software, originally developed by Tetra Tech in the 1990s. Created spreadsheets documenting the previous versions calculations and assumptions. Designed data input screens. Participated in end-user research.

Other Government Experience

Remedial Investigations, Kansas, U.S. Army Corps of Engineers (USACE), Kansas City District, 2012 to present. The USACE is conducting remedial investigations (RI) at two former Atlas missile silo sites in eastern Kansas. Managed task orders under two joint venture HTRW contracts. Prepared quality plans, including

contractor quality control plans (CQCP) and unified federal policy quality assurance project plans (UFP-QAPP). Participated and led scoping meetings, including technical project planning (TPP) meetings attended by contractors, USACE personnel, and state regulators. Procured drilling and laboratory subcontractors that met all USACE safety, quality, and accounting requirements. Participated in site reconnaissance visits. Supervised install and sampling of monitoring wells; soil, sediment, surface water, and sump sampling. Prepared and revised RI reports that included baseline risk assessment.

Site Investigations, Nebraska, Nebraska Department of Environmental Quality (NDEQ). NDEQ has tasked Tetra Tech with investigation of a number of groundwater contamination sites in the state. Prepared work plans, cost estimates, and sampling plans for the site investigation. Supervised mobile laboratories and Geoprobe crews. Collected soil and groundwater samples from Geoprobe sample points and groundwater samples from drinking water wells. Collected access agreements from property owners. Interpreted analytical results and other documentation to develop recommendations for future action. Prepared preliminary hazard ranking system score for the site. Performed technical review of reports prepared by other investigators.

Operations and Maintenance Inspections, Nebraska, NDEQ. The Operations and Maintenance Inspection is a part of ongoing RCRA corrective action at a facility. These inspections were completed at multiple facilities in Nebraska for NDEQ. Oversaw sampling events and collected confirmation samples. Evaluated groundwater sampling and analysis plan, field procedures, documentation, and quality control measures. Compared procedures to accepted professional guidelines. Made recommendations to improve quality of samples and clarity of documentation.

Comprehensive Monitoring Evaluation, Nebraska, NDEQ. The Comprehensive Monitoring Evaluation (CME) is a part of ongoing RCRA corrective action at a facility. CMEs were completed at multiple facilities in Nebraska for NDEQ. Oversaw sampling events. Evaluated groundwater sampling and analysis plan, field procedures, documentation, and quality control measures. Reviewed previous reports and descriptions of groundwater contamination. Compared procedures to accepted professional guidelines. Evaluated the adequacy of the facility's characterization of groundwater contamination and its ability to contain contaminated groundwater on its property.

TBAs, NDEQ. Ms. Wood is a qualified environmental professional providing oversight and technical review of Phase I and II TBAs for NDEQ. Sites assessed under her review have included industrial, commercial, and multi-site subject properties.

Waste Tire Market Development Plan, Colorado Department of Public Health and Environment (CDPHE) - Ms. Wood is assisting CDPHE with implementation of its Waste Tire Market Development Plan. The goal of the project is implement the Waste Tire Market Development Plan that was completed in May 2013. The project includes coordinating a statewide conference, technical trainings, technical assistance and identification, and cleanup of waste tire piles.

Voluntary Cleanup Guidance, Nebraska, NDEQ. NDEQ is developing guidance materials for its voluntary cleanup program. The guidance will include information to help facility owners and operators and their consultants conduct investigations and cleanup their properties. Reviewed federal and state guidance documents. Assembled investigation and cleanup checklists from variety of sources. Prepared an annotated bibliography of relevant sources. Wrote guidance material for investigation and remedial action.

Implementation of Strategic Long-term Solid Waste Management Plan, City of Kansas City Missouri. Ms. Wood was part of the team assisting the City with the procurement and construction of the EcoCenter materials recovery facility. The team is executing procurement—from drafting the request for proposals through evaluation of submittals—for the financing, design, construction, and operation of the Kansas City Eco Center, a solid waste recovery and processing facility, transfer station, office space, and educational center prescribed to address rapidly depleting landfill space within the region.

Smart Growth Training Materials, City of Kansas City Missouri. “Smart growth” is sustainable development that focuses on how and where new development should be accommodated in order to build strong neighborhoods, promote economic development, provide families a clean and healthy environment, and offer transportation choices. Tetra Tech was chosen to support the City of Kansas City in implementing a grant received by the City from EPA. Researched development case studies, target audiences, and growth principles. Interviewed developers and property owners. Participated in and facilitated focus group and roundtable meetings. Developed high quality outreach materials using Microsoft Publisher.

Groundwater Sampling, Alaska, National Oceanic and Atmospheric Administration (NOAA). NOAA has operated several facilities in the Pribilof Islands, including some that had leaking underground storage tanks. Collected groundwater samples for volatile organic compounds, semivolatile organic compounds, and hydrocarbons from a range of depths using a variety of pumps. Documented well conditions. Measured water levels.

Archeological Evaluation, Kansas, General Services Administration (GSA). GSA was disposing of the real property at the Sunflower Army Ammunition Plant in DeSoto, Kansas. As part of the disposal process, GSA must show that no cultural resources will be damaged by the property transaction. Procured subcontractors, including archeologists, heavy equipment operators, and NEPA specialists. Prepared and distributed project reports and notices for public interest groups. Oversaw soil survey to document areas of disturbance. Managed project budgets and schedules.

Bioterrorism Preparedness Assessment, Iowa, Iowa Department of Public Health (IDPH). IDPH, with a grant from the Centers for Disease Control, contracted Tetra Tech to conduct a comprehensive assessment of the state’s preparedness for a bioterrorism event or infectious disease outbreak. This assessment was followed by a reassessment 10 months later. Developed survey questions. Conducted pilot tests for hospitals, local public health agencies, and emergency medical services. Visited about 30 sites over a two week period. Managed survey teams. Answered user questions about the online survey content and procedure. Wrote reports, prepared diagrams, and drafted tables.

Phase II Environmental Site Assessment (ESA), 7117-7125 Prospect, City of Kansas City, Missouri. The location is a former dry cleaning business that is the site of future commercial real estate development. Performed Phase II ESA for the City of Kansas City, Missouri. Reviewed data quality, created isoconcentration maps for soil concentrations of PCE and TCE, and wrote the ESA report for the city. As part of ongoing development plans, investigated disposal options, including estimating contaminated volume, researching landfill requirements, and contacting waste disposal facilities.

Private Client Experience

Corrective Action and Permit Support, Explosives Manufacturer, Kansas. Ms. Wood has supported the ongoing corrective action and permitting at an ammunition plant in Kansas, in particular the preparation of a permit application for the operation of a hazardous waste container storage facility and an open detonation grounds. She prepared the closure and post-closure plan and the cost estimate for financial assurance. Ms. Wood also prepared the groundwater monitoring plan that supported the closure plan. In addition to permit application, Ms. Wood also provided general support for ongoing corrective action. She researched regulations related to management, disposal, and treatment of construction debris potentially contaminated with polychlorinated biphenyls (PCB) and prepared correspondence asking for exemptions and permits for submission to Kansas Department of Health and the Environment (KDHE).

Permit Support, Hazardous Waste Management Company, Nationwide. Ms. Wood has prepared, or assisted the preparation of, hazardous waste permits for a hazardous waste collection company for its facilities in Maryland, New Hampshire, Connecticut, and Indiana. She drafted closure plans and closure cost estimates for each facility. Ms. Wood also prepared exception requests for some closure provisions that did not apply to the client facilities.

Hazardous Waste Compliance Assistance and Training, Automobile Auction Corporation, Nationwide. Ms. Wood provides environmental compliance support for an automobile auction corporation with facilities nationwide. Services have included preparation and delivery of annual and initial training; preparation of contingency plans; preparation and submission of annual reports; procurement of disposal contractors; oversight of waste management and collection; and response to inspection findings.

Permit Support, Airline, Georgia and Mountain West. The client operates a large maintenance facility at the Hartsfield-Jackson International Airport and is in the process of closing its hazardous waste storage facility. Prepared a closure sampling plan. Documented already completed closure activities. For the same airline, conducted hazardous waste compliance audits at maintenance facilities in the Mountain West, including assessments of compliance and recommendations for addressing deficiencies.

Hazardous Waste Compliance Assistance, Mining Corporation, New Mexico. Ms. Wood serves provides waste management compliance support for wastes generated during the closure of a mine in New Mexico. Services have included preparation of waste management plans; review and preparation of waste characterization procedures; and regulatory review and summary.

Post-Closure and Corrective Action Assistance, Metal Casting Company, Missouri. The client produces bushings and bearings of sintered metal. Under the conditions of its Missouri Hazardous Waste Management Facility Permit, the facility is required to prepare an annual groundwater corrective action report based on semiannual groundwater monitoring. Ms. Wood has assisted the facility in preparing an application for the renewal of its hazardous waste permit, including preparation of a post-closure plan and cost estimate. She also supports the facility in its ongoing groundwater monitoring, including preparation of the semiannual and annual groundwater reports.

Permit Application and Facility Assessment Support, Petroleum Refinery, Texas. The refinery is primarily involved with manufacture of specialty chemicals including organosulfur compounds, high purity hydrocarbons, specialty fuels, and polyphenylene sulfide, an engineering plastic. Assisted preparation of a permit application for RCRA postclosure care at the facility in accordance with the RCRA requirements at 40 CFR Parts 264 and 270. Prepared RCRA Facility Assessments (RFA) for newly identified releases.

SPCC and Stormwater Management (SWM) Plans, Quarrying Company, Colorado. As a result of a property acquisition of quarrying and asphalt properties in Colorado, Tetra Tech was tasked to update facilities' SPCC and SWM plans. Developed templates for planning documents. Reviewed permits, historical plans, and site reconnaissance documentation. Wrote plans for facilities.

Due Diligence, Quarrying Company, Colorado. Ms. Wood was the qualified environmental professional providing technical review for the due diligence related to the sale of more than 40 quarrying and ready-mix concrete sites in Colorado.

Due Diligence, Facilities Management Company, Nationwide. Ms. Wood was the qualified environmental professional providing technical review for the due diligence related to a real estate transaction of more than 25 bank branches.

Spill Response and Cleanup, Trucking Insurance Company, Colorado. Ms. Wood provided spill response and cleanup support for a 2,400-gallon diesel spill resulting from a tanker truck accident. The release occurred in a remote area and impacted the roadway and adjacent shoulder areas. Prepared remediation summary report and stream monitoring plan and submitted to Colorado Department of Health and Public Environment (CDPHE). Currently awaiting agency comments on deliverables and to implement the proposed stream monitoring activities.

Strategic Solid Waste Plan, Confidential Client. A confidential private client requested a white paper concerning potential expansion or creation of a variety of different solid waste disposal facilities at its facility. Tetra Tech's analysis included the regulatory framework for disposal facilities, a market analysis of current disposal conditions, and identification of key stakeholders. Reviewed and summarized local, state, and federal

regulations for the disposal and management of municipal solid waste, construction and demolition waste, and hazardous waste. Prepared disposal recommendations and identified benefits and pitfalls of all waste disposal options.

Compliance Assistance, Redevelopment of Ammunition Plan, Kansas. The client began remediation at the former ammunition plant in Kansas. Ms. Wood also served as the contract manager for the Tetra Tech EMI team at and oversaw finances for the \$1.5M contract. Environmental compliance issues related to pesticide application, management of asbestos containing material, permit and consent decree provisions, overlapping jurisdictions, and financial assurance have arisen during the corrective action at this complex site. Ms. Wood served as part of a steering committee preparing white papers for a team consisting of the developer, the developer's internal counsel, and its subcontractors to clarify the regulatory framework and make recommendations for future action.

For this facility, the client also requested a Class 2 hazardous waste permit modification to add staging piles for management of remediation wastes generated during corrective action activities. Participated in scoping meetings with the client's contractors and subcontractors. Drafted permit modification application and revised based on preliminary meetings with federal and state regulators. Participated in and facilitated public meetings.

Due Diligence, Grain Elevator Company, Nationwide. Ms. Wood was the qualified environmental professional providing technical review for the due diligence related to the sale of 16 grain elevator sites in Texas, Illinois, Tennessee, and Mississippi.

Compliance Assistance, Parcel Delivery Company, Nationwide. As part of its ongoing environmental compliance efforts, the client requested that Tetra Tech provide a break-down of waste management regulations for the State of California. Researched California hazardous, solid, and special waste regulations. Prepared waste management guidelines.

Phase I ESA, Explosives Manufacturer, Kansas. The client requested these services in response to a Kansas Department of Health and Environment (KDHE) finding that contamination from previous owners persists on the property. Conducted an ASTM-standard Phase I ESA at the Energetics unit, focusing on areas that may have resulted in soil or groundwater contamination with perchlorate, fuel oil, or other hazardous constituents. Conducted the site walk and interviews with facility representatives. Documented observations with photos and field notes.

Phase I ESA and Visual Site Inspections, Cellular Telephone Company, Nationwide. These sites were potential locations for Verizon cellular telephone antennae. The antennae would be located on a variety of pre-existing structures or constructed on undeveloped land. Phase I ESAs were conducted at locations where new antennas or equipment sheds were to be built. Visual Site Inspections were conducted in locations where equipment sheds were to be expanded. Researched local geology, hydrogeology, and hydrology, interviewed site users and adjacent property managers, and investigated any possible recognized environmental conditions.

SCIENTIFIC/TECHNICAL PUBLICATIONS

Wood, H.K. and G.L. Macpherson. 2005. "Sources of Sr and implications for weathering of limestone under tallgrass prairie, northeastern Kansas." Applied Geochemistry. 20. pp. 2325-2342.

ADDITIONAL TRAINING/CERTIFICATIONS

RCRA Corrective Action (2002)

Planning for Quality Project Management Training (2002)

Technical Writing (2003)

ADDITIONAL EXPERIENCE

CostPro

Microsoft Publisher

Word Processing Superuser

EMPLOYMENT HISTORY

2001 - Present	Environmental Consultant, Tetra Tech, Inc., Kansas City, MO
1998 – 2001	Teaching Assistant, University of Kansas, Lawrence, KS
1991 – 1996	System Design Consultant, Andersen Consulting, Austin, TX